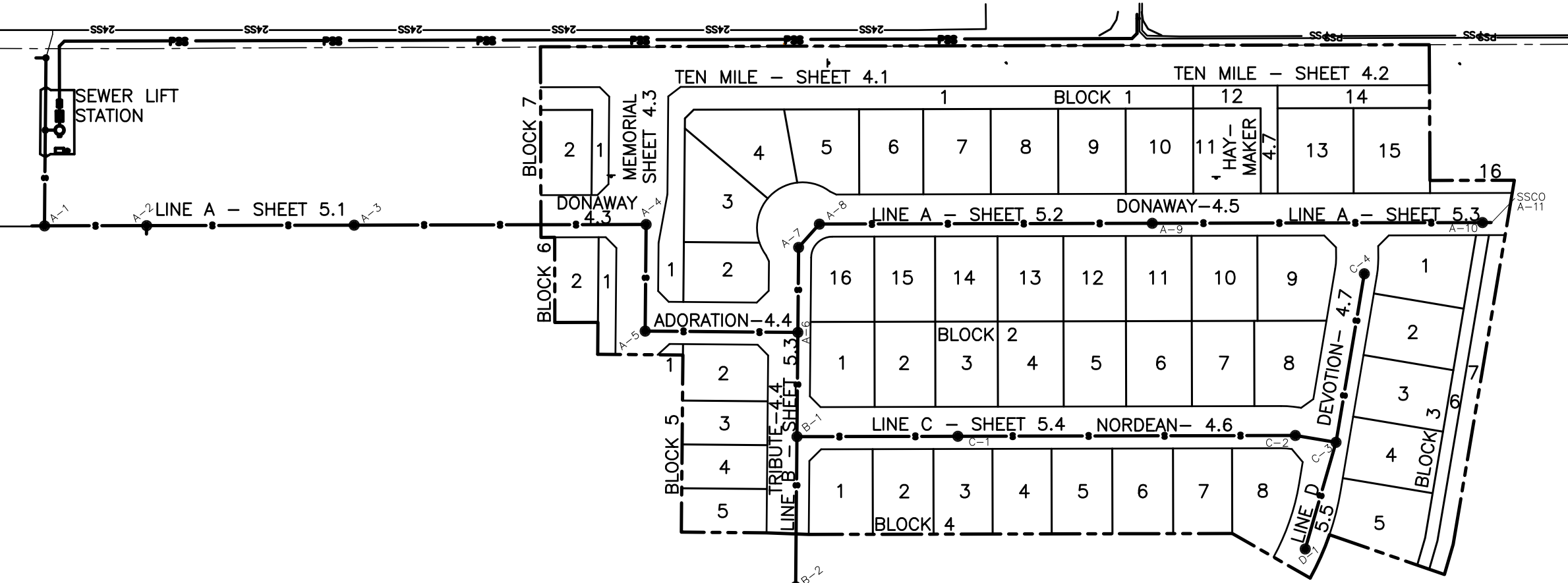


GENERAL

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR REQUIREMENTS OF KUNA CITY PUBLIC WORKS DEPARTMENT, THE ADA COUNTY HIGHWAY DISTRICT, AND/OR THE ISPCW (LATEST EDITION)
2. A PRE CONSTRUCTION CONFERENCE WILL BE HELD A MINIMUM OF 48 HOURS PRIOR TO START OF WORK. ALL CONTRACTORS, SUBCONTRACTORS AND/OR UTILITY CONTRACTORS SHOULD BE PRESENT. THE CONTRACTOR SHALL NOTIFY KUNA CITY WHEN SHUTTING DOWN A JOB FOR ANY REASON AND PROVIDE 48 HOURS NOTICE BEFORE RESTARTING WORK AGAIN.
3. WHERE IT IS NECESSARY FOR NON POTABLE WATER LINE AND POTABLE WATER LINE TO CROSS EACH OTHER AND THE NON POTABLE WATER PIPE CENTERED ON THE CROSSING. PRESSURE SEWAGE MAINS SHALL BE NO CLOSER THAN 18 INCHES FROM POTABLE MAINS. IN LIEU OF CONSTRUCTING OR RECONSTRUCTING THE NON POTABLE WATER LINE TO CONFORM TO WATER MAIN STANDARDS, THE POTABLE WATER LINE MAY BE PROTECTED BY A SLEEVING MATERIAL ACCEPTABLE TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY FOR A DISTANCE OF 10 HORIZONTAL FEET ON BOTH SIDES OF THE CROSSING.
4. CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSISTS OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCES, STRUCTURES, DEBRIS, RUBBISH AND SUCH MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, IS UNSUITABLE FOR THE FOUNDATION OF PAVEMENTS. ALL MATERIAL NOT SUITABLE FOR FUTURE USE ON SITE SHALL BE DISPOSED OF OFF SITE.
5. SURVEY CONTROL POINTS WHICH ARE CRITICAL TO THE CONSTRUCTION OF THE PROJECT ARE TO BE LOCATED WITHIN THE LIMITS OF WORK. THE CONTRACTOR SHALL TAKE PRECAUTION TO PROTECT THE POINTS IN PLACE.
6. ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL REPLACEMENT DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
7. ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRIAGES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
8. EXISTING A.C. PAVEMENT SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING.
9. ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE.
10. CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE REQUIREMENTS OF ITEM #9 AT THE REQUEST OF THE AGENCY AND/OR THE ENGINEER.
11. ALL CONTRACTORS WORKING ON ROAD RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT- OF-WAY PERMIT FROM ACHD AT LEAST 24 HOURS PRIOR TO ANY CONSTRUCTION.
12. ALL COSTS OF RETESTING FOR PREVIOUSLY FAILED TESTS SHALL BE BACK CHARGED TO THE CONTRACTOR BY THE OWNER.
13. ALL COSTS TO THE OWNER FOR CORRECTING DEFICIENT WORK SHALL BE TO THE CONTRACTORS ACCOUNT. FAILURE TO CORRECT SUCH WORK WILL BE CAUSE FOR A STOP WORK ORDER AND POSSIBLE TERMINATION.
14. THE CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CURB & GUTTER, STORM DRAIN, CHANNEL, CROSSINGS AND SEWER ELEVATIONS OR INVERTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER WHEN DISCREPANCIES ARE FOUND.
15. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION. COPIES OF RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
16. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY NECESSARY NPDES PERMITS, FILING ANY NOI'S, AND PREPARING A POLLUTION PREVENTION PLAN (PPP) IN ACCORDANCE WITH ENVIRONMENTAL PROTECTION AGENCY REGULATIONS. CONTACT THE EPA AT (206) 378-5746 FOR THE REQUIRED INFORMATION. SAID PERMIT SHALL BE PRESENTED TO THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
17. ALL UTILITIES, INCLUDING SERVICE LINES, WITHIN STREET TRAVEL WAYS SHALL BE IN PLACE PRIOR TO CURB, GUTTER, SIDEWALKS AND STREET CONSTRUCTION.
18. PIPE CONTRACTOR SHALL REPLACE ALL PAVEMENT AND CONCRETE REMOVED FOR THE INSTALLATION OF WATER, SEWER, OR IRRIGATION PIPE. ALL PAVEMENT SHALL BE REPLACED WITHIN SEVEN CALENDAR DAYS FROM THE TIME THE PAVEMENT AND/OR CONCRETE IS REMOVED. PER ISPCW STANDARD SPECIFICATIONS.
19. NO PAVING SHALL OCCUR UNTIL THE CONTRACTOR OBTAINS WRITTEN APPROVAL OF ALL INSTALLED WATER, SEWER, AND PRESSURE IRRIGATION FACILITIES FROM THE CITY OF KUNA.
20. IN AREAS WHERE ROCK EXCAVATION IS REQUIRED ALL BLASTING FOR OTHER UTILITIES SHALL OCCUR PRIOR TO INSTALLATION OF ANY SEWER MAINS, WATER MAINS, PRESSURE IRRIGATION MAINS OR SERVICE LINE CROSSINGS. BLASTING FOR ROCK EXCAVATION IN THE PROXIMITY OF EXISTING UTILITIES FROM PREVIOUS PHASES OF THE SUBDIVISION OR NEIGHBORING SUBDIVISIONS MAY BE PERFORMED AS LONG AS IT IS EQUIV DISTANCE FROM THE EXISTING UTILITY OR A MINIMUM OF 15 FEET, WHICHEVER IS GREATER. THE CONTRACTOR PERFORMING THE BLASTING SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY EXISTING UTILITIES.
21. THE DEVELOPER IS REQUIRED TO RETAIN A QUALIFIED REGISTERED ENGINEER TO PERFORM INSPECTION SERVICES DURING CONSTRUCTION. THE ENGINEER SHALL FURNISH CITY A WRITTEN CERTIFICATION THAT THE PROJECT WAS COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. COPIES OF ALL AIR TESTS, DEFLECTION TESTS, PRESSURE TESTS, AND BACTERIOLOGICAL TEST RESULTS SHALL BE FURNISHED WITH THE CERTIFICATION LETTER.
22. THE CITY OF KUNA WILL PROVIDE PERIODIC INSPECTION AND OBSERVE TESTING FOR AN EIGHT HOUR DAY, FROM 8:00 A.M. TO 5:00 P.M. FOR A FORTY HOUR WEEK. THE CONTRACTOR SHALL REIMBURSE THE CITY AT RATES ESTABLISHED BY THE CITY FOR INSPECTION IN EXCESS OF THE NORMAL WORK WEEK, INCLUDING LEGAL HOLIDAYS. OVERTIME INSPECTION RATES AND A LIST OF LEGAL HOLIDAYS CAN BE OBTAINED FROM THE CITY OF KUNA.
23. ALL PLANS USED FOR CONSTRUCTION SHALL BEAR THE CITY OF KUNA "APPROVED FOR CONSTRUCTION" STAMP. THE DEVELOPER OR HIS ENGINEER SHALL DELIVER THE ORIGINAL DRAWINGS TO THE CITY ENGINEER FOR APPLICATION OF THE APPROVAL STAMP FOLLOWING APPROVAL BY OTHER AGENCIES AND PRIOR TO PRINTING THE FINAL PLAN SETS FOR CONSTRUCTION. APPROVAL STAMPS AND APPROVAL LETTERS SHALL BE SUBMITTED WITH THE ORIGINAL DRAWINGS TO RECEIVE THE APPROVAL STAMP. ALL PLANS PRINTED FOR CONSTRUCTION SHALL BE PRINTED ON A PINK YELLOW PAPER, THREE COMPLETE SETS OF FINAL CONSTRUCTION PLANS FOR THE WATER, SEWER, PRESSURE IRRIGATION AND ROADWAY IMPROVEMENTS SHALL BE FURNISHED TO THE CITY PRIOR TO BEGINNING CONSTRUCTION. USE OF ANY PLANS WITHOUT THE KUNA "APPROVED FOR CONSTRUCTION" STAMP DURING CONSTRUCTION WILL BE CAUSE FOR A STOP WORK ORDER BY THE CITY. ANY MODIFICATIONS DURING CONSTRUCTION MUST BE APPROVED IN WRITING BY THE CITY.
24. WHEN CONSTRUCTION IS SATISFACTORILY COMPLETED, CLEANED AND TESTED THE DEVELOPER SHALL REQUEST A FINAL ACCEPTANCE INSPECTION BY THE CITY. THE CITY ENGINEER SHALL CONDUCT THE INSPECTION. AFTER ALL OTHER UTILITIES ARE INSTALLED, AT A MINIMUM, THE FINAL ACCEPTANCE INSPECTION SHALL CONSIST OF CLEANING ALL SEWER MAINS, VISUALLY INSPECTING EACH MANHOLE, WITNESSING A FINAL SEWER AIR TEST AND WATER PRESSURE TEST, PRESSURE IRRIGATION PRESSURE TEST, DEFLECTION TESTING OF THE SEWER MAINS, VISUAL INSPECTION OF THE SEWER MAINS, AND PROVIDING A DVD VIDEO OF ALL SEWER MAIN VISUAL INSPECTION. ALL TESTING IS TO BE PROVIDED AND PAID FOR BY THE DEVELOPER AS PART OF SUBDIVISION OBLIGATIONS.
25. THE CITY HAS THE RIGHT TO INSPECT THE WORK AT ANY TIME DURING CONSTRUCTION. ANY WORK THAT DOES NOT CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE REJECTED.
26. THE DEVELOPER SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE CITY. THIS GUARANTEE SHALL COVER ALL DAMAGE TO THE CITY UTILITY SYSTEMS OF ANY KIND. DEVELOPER SHALL NOTIFY ALL PURCHASERS OF LOTS, AND THEIR CONTRACTORS, THAT CITY UTILITY SYSTEMS HAVE BEEN ACCEPTED BY THE CITY. ANY DAMAGE TO THESE SYSTEMS DURING HOME CONSTRUCTION SHALL BE BELIED DIRECTLY TO THE OWNER OF RECORD AT THE TIME THE DAMAGE IS FOUND.
27. THE DEVELOPER SHALL FURNISH THE CITY RECORD DRAWINGS AS FOLLOWS: ONE (1) SET OF ELECTRONIC DRAWINGS ON CD IN PDF FORMAT, AND TWO (2) 24 X 36 SETS ON WHITE PAPER BEFORE FINAL PLAT OR WITHIN 30 DAYS OF FINAL ACCEPTANCE.

ROADWAY

1. ALL CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CURRENT EDITION OF THE ISPCW AND THE ACHD SUPPLEMENTAL SPECIFICATIONS. NO EXCEPTIONS TO DISTRICT POLICY, STANDARDS, AND THE ISPCW WILL BE ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED IN WRITING BY THE DISTRICT.
2. WHEN DISCREPANCIES OCCUR BETWEEN PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. UNTIMELY NOTIFICATION SHALL NEGATE ANY CONTRACTORS CLAIM FOR ADDITIONAL COMPENSATION.
3. INSPECTION OF WORK WITHIN THE RIGHT-OF-WAYS SHALL BE BY THE ADA COUNTY HIGHWAY DISTRICT AND THE OWNER'S ENGINEER. CONTACT ACHD INSPECTION SERVICES AT 387-6284 TO SCHEDULE INSPECTIONS. 48 HOUR ADVANCED NOTICE IS REQUIRED.
4. ALL TOPS OF VALVE BOXES FLUSH WITH THE SLOPE OF THE FINISHED STREET GRADES. THE ROADWAY CONTRACTOR SHALL INSTALL AND ADJUST ALL SPACERS, GRADE RINGS, MANHOLE RINGS AND LIDS.
5. EXISTING A.C. PAVEMENT SHALL BE CUT TO A NEAT STRAIGHT LINE (2' MINIMUM CUT BACK) PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING.
6. ALL COSTS OF RETESTING FOR PREVIOUSLY FAILED TESTS SHALL BE BACKCHARGED TO THE CONTRACTOR BY THE OWNER.
7. ALL COSTS TO THE CONTRACTOR INCURRED IN CORRECTING DEFICIENT WORK SHALL BE TO THE CONTRACTORS ACCOUNT. FAILURE TO CORRECT SUCH WORK WILL BE CAUSE FOR A STOP WORK ORDER AND POSSIBLE TERMINATION.
8. ALL STORM DRAINAGE APPURTENANCES SHALL BE INSPECTED AND CERTIFIED BY ADA COUNTY HIGHWAY DISTRICT.
9. ALL WATER VALVES WILL BE PLACED SO AS NOT TO CONFLICT WITH ANY CONCRETE CURB, GUTTER, VALLEY GUTTER, AND SIDEWALK IMPROVEMENTS.
10. ALL WATER METERS ARE TO BE LOCATED OUTSIDE THE ROAD RIGHT-OF-WAY. ALL FIRE HYDRANTS ARE TO BE LOCATED WITHIN THE ROAD RIGHT-OF-WAY. THERE MUST BE AT LEAST A ONE (1) FOOT SEPARATION BETWEEN BACK OF SIDEWALK (OR CURB IF NO SIDEWALK) AND THE LEADING EDGE OF ANY FIRE HYDRANT.
11. OVER EXCAVATION AND ADDITIONAL GRANULAR BACKFILL MAY BE REQUIRED IN HIGH GROUNDWATER AREAS WHICH ARE TO BE DETERMINED BY THE FIELD INSPECTOR.
12. ALL MATERIAL PLACED AS FILL OR BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 306 OF THE CURRENT EDITION OF ADA COUNTY HIGHWAY DISTRICT STANDARD SPECIFICATIONS.
13. ROADWAY CONSTRUCTION WILL MEET SPECIFIC DETAILS AND REQUIREMENTS OF THE FOLLOWING IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION STANDARD DRAWINGS: (CURRENT EDITION)
 1. STREET SECTION, ACHD SUPPLEMENTAL DRAWING NO. SD-801, AND SECTIONS AS SHOWN ON ROADWAY DETAIL SHEET.
 2. ASPHALT REPAIR FOR STREET CUTS. ISPCW DRAWINGS SD-301, ACHD SD-303, ACHD SD-806
 3. 4.0' CONCRETE VALLEY GUTTER, ACHD SUPPLEMENTAL DRAWING NO. SD-708.
 4. VERTICAL AND ROLLED CURB AND GUTTER, ACHD SUPPLEMENTAL DRAWING NO. SD-701 AND SD-702.
 5. HANDICAP PEDESTRIAN RAMP, DRAWING NO. SD-712A, SD-712B AND SD-712C.
 6. DETECTABLE WARNING TRUNCATED DOMES TO BE CAST INTO THE CONCRETE (ADHESIVE MATS NOT ALLOWED) AND COLORED TRAFFIC YELLOW. DRAWING NO. SD-719.
 7. SIDEWALKS, ACHD SUPPLEMENTAL DRAWING NO. SD-709.
 8. MONITORING WELLS PER ACHD STORMWATER DESIGN GUIDELINES DETAIL 7.
 9. SAND AND GREASE TRAP PER ACHD STORMWATER DESIGN GUIDELINES BMP-01.
 10. SAND AND GREASE TRAP PER ACHD STORMWATER DESIGN GUIDELINES BMP-02.
 11. DRAINAGE POND PER ACHD STORMWATER DESIGN GUIDELINES BMP-02.
15. PRIOR TO PLACEMENT OF ANY PAVEMENT MARKINGS CONTACT ACHD INSPECTION FOR VERIFICATION OF COMPLIANCE WITH POLICY AND EXISTING PAVEMENT MARKINGS.
16. FOR SUBDIVISION SIGN INSTALLATION, OUTSIDE INSTALLERS MUST BE BONDED WITH ACHD AND OBTAIN A NO-CHARGE RIGHT-OF-WAY PERMIT.



STREET & SEWER INDEX MAP
-NTS-

WATER

1. THE WATER SYSTEM SHALL BE CONSTRUCTED TO CONFORM WITH STANDARDS SET FORTH IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS", THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPCW LATEST EDITION) AND CITY OF KUNA STANDARDS.
2. CONTRACTOR SHALL NOTIFY OWNER'S ENGINEER AND KUNA CITY 48 HOURS BEFORE INITIAL CONSTRUCTION BEGINS AND SHALL ALSO REQUEST KUNA CITY INSPECTION OF WATER LINES AND APPURTENANCES TWENTY-FOUR (24) HOURS IN ADVANCE OF BACKFILLING.
3. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT THE ENTRY OF ANIMALS, DIRT AND OTHER FOREIGN MATTER INTO PIPES AND SHALL NOT LEAVE ANY OPEN PIPE END AT ANY TIME WHEN ABSENT FROM THE WORK SITE.
4. ALL WATER MAINS SHALL BE PVC CONFORMING TO THE PROVISIONS OF AWWA C-900 OR 18 OR CLASS 150 CEMENT MORTAR LINED DUCTILE IRON CONFORMING TO AWWA C-151. ALL FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA C-110.
5. MINIMUM DEPTH FOR ALL WATER MAINS SHALL BE FOUR (4) FEET FROM FINISHED GRADE TO TOP OF PIPE.
6. AFTER INSTALLATION OF WATER MAINS, TRENCHES SHALL BE COMPACTED TO 95% OF MAXIMUM PROCTOR DENSITY TO PREVENT SETTLEMENT.
7. ALL MAIN LINE WATER VALVES SHALL BE RESILIENT-SEATED GATE VALVES CONFORMING TO AWWA C-509. ALL WATER VALVES SHALL BE FURNISHED WITH A STANDARD CAST IRON 5-1/4 INCH DIAMETER 3-PIECE ADJUSTABLE VALVE BOX. THE CAST IRON COVER SHALL BE DESIGNED TO SLIP INSIDE THE TOP BELL AND SHALL BE MARKED WITH THE WORD "WATER" AS AN INTEGRAL PART OF THE COVER. CONCRETE COLLAR SHALL BE REQUIRED WHEN LOCATED IN PAVEMENT.
8. ALL TEES, PLUGS, BENDS, AND OTHER LOCATIONS WHERE UNBALANCED FORCES EXIST, SHALL BE SECURED AND ANCHORED BY SUITABLE THRUST BLOCKING AS SHOWN ON SD-403 (ISPCW).
9. NO. 12 DIRECT BURIAL TRACER WIRE SHALL BE PLACED AND TAPED AT THE CROWN OF WATER MAINS AND SERVICE LINES. THE TRACER WIRE SHALL BE LOOPED FROM THE MAIN LINE TO EACH SERVICE VAULT ALONG THE SERVICE PIPE AND BACK TO THE MAIN LINE. THE TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVE BOXES AND SHALL BE EXTENDED ALONG THE OUTSIDE OF THE LOWER PORTION OF THE VALVE BOX AND ALONG THE INSIDE OF THE UPPER PORTION. WIRE SHALL BE TAPED TO GATE VALVES SO IT IS ACCESSIBLE FROM ABOVE BUT DOES NOT INTERFERE WITH VALVE OPERATION. AN ELECTRICAL CONTINUITY TEST SHALL BE CONDUCTED BEFORE PAVING TO PROVE THE INTEGRITY OF THE TRACER WIRE.
10. ALL MAINS SHALL BE LEAK-TESTED, FLUSHED AND DISINFECTED AFTER INSTALLATION OF ALL UTILITIES, BEFORE PAVING AND BEFORE CONNECTING TO THE SYSTEM. THE DISTRIBUTION SYSTEM SHALL BE PRESSURE TESTED TO 150 PSI MINIMUM OR IN ACCORDANCE WITH SECTION 401 OF THE ISPCW. IT SHALL BE DISINFECTED ACCORDING TO SECTION 401 (ISPCW) AND THEN FLUSHED. THE DISINFECTION AND FINAL FLUSHING PROCEDURE SHALL BE TESTED TO DETERMINE IF THE APPROPRIATE MINIMUM CHLORINE (CL) RESIDUALS HAVE BEEN MET. EACH WATER SETTER SHALL BE OPENED TO VERIFY THAT THE CORROSION STOP IS OPEN AND THE SERVICE IS ODEASABLE PRIOR TO PAVING. EACH VALVE AND HYDRANT SHALL BE OPERATED TO ENSURE IT IS FUNCTIONAL PRIOR TO PAVING. A REPRESENTATIVE OF THE CITY MUST OBSERVE THE TESTING.
11. ALL INSTALLED WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH DIVISION 400, OF THE ISPCW SPECIFICATIONS AND PASS THE REQUIRED BACTERIOLOGICAL TEST PRIOR TO BEING PUT INTO SERVICE. THE CONTRACTOR SHALL FURNISH KUNA CITY WITH REPORTS FROM A CERTIFIED LABORATORY OF THE BACTERIA SAMPLES SHOWING THAT THE WATER LINES HAVE PASSED BACTERIA SAFETY REQUIREMENTS. A REPRESENTATIVE OF THE CITY MUST OBSERVE THE TESTING.
12. THE CONTRACTOR MAY PRESSURE TEST ALL WATER LINES AFTER DISINFECTION AND FLUSHING BUT PRIOR TO INSTALLATION OF OTHER UTILITIES. AFTER ALL UTILITIES ARE INSTALLED AND PRIOR TO PAVING THE CONTRACTOR SHALL PERFORM A FINAL PRESSURE TEST WITH KUNA CITY PERSONNEL IN ATTENDANCE. THE CONTRACTOR SHALL FURNISH ALL PERSONNEL AND EQUIPMENT NECESSARY TO CONDUCT THE TEST.
13. CONTRACTOR IS TO FIELD VERIFY ALL VALVE BOX LID ELEVATIONS TO ENSURE THAT SAID LID ELEVATIONS MATCH FINAL STREET GRADE, AND ALL METER LID ELEVATIONS TO MATCH SIDEWALK ELEVATIONS.
14. VALVES, FLANGED OR M.J., SHALL BE LOCATED IN THE STREET UNLESS EXPLICITLY APPROVED BY THE CITY ENGINEER. ALL GATE VALVES SHALL BE SET AS CLOSE (FLANGE CONNECTED) AS POSSIBLE TO MAIN LINE FITTINGS. ALL WATER METERS AND FIRE HYDRANTS ARE TO BE LOCATED OUT OF THE ROAD RIGHT-OF-WAY. THERE MUST BE AT LEAST A ONE (1) FOOT SEPARATION BETWEEN ANY BACK OF SIDEWALK (OR CURB IF NO SIDEWALK) AND THE LEADING EDGE OF ANY FIRE HYDRANT.
15. WATER SERVICE LINES SHALL BE PLACED IN A 4 INCH DIAMETER SCHEDULE 80 WATER CLASS PIPE WHEREVER THE SERVICE LINE CROSSES A STREET DRAINAGE BEDDING.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS WATER SERVICE TO ALL EXISTING WATER USERS AFFECTED BY CONSTRUCTION.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ALL EXISTING SERVICE CONNECTIONS WITH AN 8-FOOT 2 X 4 BOARD PAINTED BLUE. CONTRACTOR SHALL STAMP OR STENCIL THE SIDEWALK AT THE POINT WHERE THE SERVICE CROSSES THE SIDEWALK.
18. THE PAVING CONTRACTOR SHALL SET WATER VALVE RISERS IN CONCRETE COLLARS PER ISPCW STANDARD DRAWING SD-406.
19. ALL FIRE HYDRANTS SHALL BE DRY BARREL CONFORMING TO AWWA C-502 AND PROVIDED AND INSTALLED PER ISPCW SECTION 403 AND ISPCW DWG SD-404. HYDRANTS SHALL HAVE A FIVE (5) FOOT SETTING MINIMUM; 150 PSI WORKING PRESSURE; ONE 4-1/2 INCH DIAMETER NATIONAL STANDARD PLUMBER NOZZLE; AND TWO 2-1/2 INCH DIAMETER NATIONAL STANDARD THREAD FIRE HOSE NOZZLES. THE VALVE OPERATOR SHALL OPEN COUNTER CLOCKWISE. THE HYDRANT SHALL BE EQUIPPED WITH DRAIN THAT OPENS WHEN HYDRANT IS CLOSED; AND A SIX (6) INCH FLANGED BY MECHANICAL JOINT RESILIENT-SEAT GATE VALVE ATTACHED DIRECTLY TO THE MAIN LINE TEE. FIRE HYDRANTS SHALL BE A CLOW MEDALLION, WATERLOUS PAGER 100, OR MUELLER A423. NO OTHERS WILL BE ACCEPTED. MAXIMUM HYDRANT SPACING SHALL BE 450 FEET. HYDRANT LOCATIONS SHALL BE APPROVED IN WRITING BY THE KUNA RURAL FIRE DEPARTMENT AND SUBMITTED WITH THE CONSTRUCTION PLANS FOR FINAL REVIEW AND APPROVAL BY THE CITY ENGINEER.
20. INDIVIDUAL 1-INCH WATER SERVICES SHALL BE INSTALLED FOR EACH CONNECTION FROM A SINGLE OR DUAL METER VAULT. THE 1-INCH WATER SERVICE FOR EACH CONNECTION SHALL BE EXTENDED A MINIMUM OF 10-FEET ON THE HOUSE SIDE OF THE METER, OR AS REQUIRED TO EXTEND PAST OTHER UTILITIES LOCATED WITHIN THE 10-FOOT UTILITY EASEMENT. WATER METERS SHALL BE FURNISHED AND INSTALLED BY THE CITY. EXCEPT AS NOTED BELOW, SERVICE DETAILS SHALL BE AS NOTED IN ISPCW DWG SD-401. SPECIFICALLY EACH SERVICE LEG SHALL BE PROVIDED WITH 18-INCH TALL 1/2-INCH COPPER METER SETTER; CURB STOP; LOCKABLE SHUTOFF VALVE; AND 450-INCH VALVE. THE METER SETTER SHALL BE 36-INCH IRON FRAME AND COVER TAPPED WITH A 1-INCH DIAMETER RECESSED HOLE FOR THE CITY AUTOREAD METER SENSOR AS APPROVED BY THE CITY. WHERE PRACTICAL METER BOX SHALL BE LOCATED ON THE HOUSE PROPERTY, OR IN CASE OF DUAL WATER SERVICE, ON THE NORTH OR EAST SIDE OF THE COMMON PROPERTY LOT LINE. THE CENTERLINE OF THE METER SETTER SHALL BE LOCATED 18-INCHES BELOW FINISH GRADE. METERS SHALL BE PLACED 18-INCHES INSIDE THE PROPERTY LINE AND 18-INCHES AWAY FROM THE SIDE LOT LINE.
21. MULTIPLE TAPS IN THE SAME PIPE JOINT SHALL BE STAGGERED AND SHALL BE SEPARATED BY A MINIMUM OF ONE FOOT.
22. ALL PIPE, MAINS, AND SERVICES SHALL BE BEDDED WITH TYPE I OR TYPE III BEDDING. IN AREAS OF ROCK EXCAVATION BEDDING SHALL BE SIX (6) INCHES BELOW THE BOTTOM OF PIPE.

SEWER

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH "THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPCW - LATEST EDITION)", STANDARDS OF KUNA CITY PUBLIC WORKS DEPARTMENT AND/OR THE ADA COUNTY HIGHWAY DISTRICT MODIFICATIONS TO THE ISPCW.
2. FINAL APPROVAL AND ACCEPTANCE OF ALL SEWER CONSTRUCTION WILL BE BY THE CITY OF KUNA.
3. ALL SEWER PIPE AND FITTINGS SHALL BE POLY-VINYL-CHLORIDE (PVC) CONFORMING TO THE PROVISIONS OF ASTM D-3034, SDR-35 FOR SIZES 4-INCH THROUGH 15-INCH AND ASTM F 679 FOR SIZES 18-INCH THROUGH 36-INCH. PRESSURE SEWER PIPE SHALL CONFORM TO AWWA C900 PVC, OR 18 (235 PSI) PIPE.
4. SEWER INSPECTIONS WILL BE BY OWNER'S ENGINEER AND THEIR DECISIONS SHALL BE CONSIDERED AS FINAL. SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER AND IN CONFORMANCE WITH APPROVED PLANS.
5. AFTER STUB CUTS FOR SERVICE LINES ARE INSTALLED AND MARKED, THE CONTRACTOR SHALL NOTIFY OWNER AND CITY ENGINEER FOR INSPECTION SO THAT ANY DESTRUCTION OF SAME IS NOT BACKCHARGED TO SEWER CONTRACTOR.
6. PRIOR TO FINAL ACCEPTANCE, AFTER ALL UTILITIES ARE IN AND PRIOR TO PAVING, TESTING SHALL BE CONDUCTED. THE CONTRACTOR SHALL CONTACT OWNER'S ENGINEER AND THE CITY OF KUNA A MINIMUM OF 24 HOURS PRIOR TO TESTING. ALL INSTALLED SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH DIVISION 500 OF THE ISPCW SPECIFICATIONS. A REPRESENTATIVE OF THE CITY MUST OBSERVE THE TESTING. TESTING SHALL INCLUDE INVERT ELEVATIONS, DEFLECTION TESTING, SURVEY INVERT ELEVATIONS AND VISUAL INSPECTION USING CCTV CAMERA. A COPY OF THE VISUAL INSPECTION TAPE SHALL BE PROVIDED TO THE CITY OF KUNA IN DVD FORMAT PRIOR TO FINAL ACCEPTANCE OF THE SEWER LINE. ALL SEWER LINES SHALL BE CLEANED PRIOR TO THE DEFLECTION TEST AND CCTV CAMERA INSPECTIONS.
7. ALL MANHOLES SHALL BE CONSTRUCTED WATER TIGHT AND WITH THE TOP OF CONE LOCATED WITHIN 21 INCHES OF FINISHED GRADE. THE SEWER CONTRACTOR SHALL SUPPLY ALL LID ASSEMBLIES AND THE REQUIRED NUMBER OF RISER AND GRADE RINGS. THE SEWER CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF THE TOP OF THE EXISTING AND CONSTRUCTED MANHOLE CONES TO ASSURE THAT ALL RING ELEVATIONS MATCH FINAL STREET GRADES. EACH OF THE GRADE RINGS SHALL BE SET IN A BED OF NON-SHRINK GROUT OR MORTAR AND TROWELED SMOOTH WITH THE INSIDE OF THE MANHOLE. THE NON-SHRINK GROUT SHALL FRAME AND GRADE RINGS. STACKING OF THE GRADE RINGS AND FRAME WITHOUT NON-SHRINK GROUT OR MORTAR WILL NOT BE ALLOWED.
8. THE PAVING CONTRACTOR SHALL SET THE GRADE RINGS AND POUR THE CONCRETE COLLARS PER STANDARD DRAWING NO. SD-508. THE PAVING CONTRACTOR SHALL CONTACT ADA COUNTY HIGHWAY DISTRICT 24 HOURS PRIOR TO POURING CONCRETE COLLARS.
9. SERVICE STUB CUTS WILL BE TO THE POINTS SHOWN IN THE DRAWINGS OR AS MARKED BY THE ENGINEER IN THE FIELD. SEWER SERVICE STUB CUTS BEGINNING AT A MANHOLE ARE GENERALLY NOT APPROVED, BUT WHEN UNAVOIDABLE IN THE OPINION OF THE CITY ENGINEER, SHALL HAVE THE TOP OF THE FOUR INCH SERVICE LINE PIPE MATCH THE TOP OF THE MAINLINE PIPE. SEWER SERVICE MARKER SHALL BE IN PLACE FOR FINAL INSPECTION. SIDEWALKS ARE TO BE STAMPED OR STENCILED WHERE SERVICE CROSSES.
10. GROUNDWATER LEVELS SHALL BE MAINTAINED BELOW THE BOTTOM OF THE TRENCH DURING THE PIPE LAYING AND PIPE JOINING OPERATIONS.
11. TRENCH BACKFILL ABOVE THE PIPE ZONE SHALL BE INSPECTED BY ADA COUNTY HIGHWAY DISTRICT OR BY THE OWNER'S ENGINEER IN ACCORDANCE WITH THE LATEST EDITION OF THE "CONSTRUCTION QUALITY ASSURANCE MANUAL". COMPACTION TESTS ARE REQUIRED IN THE BACKFILL ABOVE THE PIPE ZONE, WITHIN PUBLIC RIGHT-OF-WAY, ACCORDING TO ADA COUNTY HIGHWAY DISTRICT REQUIREMENTS AND THE RESULTS SHALL BE SUBMITTED TO KUNA CITY AND ADA COUNTY HIGHWAY DISTRICT PRIOR TO FINAL ACCEPTANCE.
12. ALL STATIONING IS REFERENCED TO THE GRAVITY SEWER CENTERLINE.
13. SEWER SERVICE LINES SHALL BE INSTALLED PRIOR TO STREET IMPROVEMENTS.
14. THE HORIZONTAL SEPARATION OF WATER AND SEWER MAINS SHALL BE A MINIMUM OF TEN FEET FROM PIPE EDGE TO PIPE EDGE. PRESSURE SEWAGE MAINS SHALL CROSS NO CLOSER THAN 18 INCHES FROM POTABLE MAINS.
15. SEWER CONSTRUCTION SHALL MEET THE SPECIFIC DETAILS AND REQUIREMENTS OF THE FOLLOWING STANDARD DRAWINGS AND ACCOMPANYING SPECIFICATIONS FOUND IN "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION" AND ADA COUNTY HIGHWAY DISTRICT STANDARD DRAWINGS:
 1. STANDARD MAIN, TYPE A, DRAWING NO. SD-501 AND SD-501A.
 2. STANDARD SHALLOW MANHOLE - DRAWING NO. SD-505.
 3. MANHOLE COLLAR DETAIL - DRAWING NO. SD-508.
 4. MANHOLE AND SERVICE LINE CONNECTION - DRAWING NO. SD-507.
 5. STANDARD SEWER SERVICE LINE - DRAWING NO. SD-511 & SD-511A.
 6. SEWER SERVICE MARKER - DRAWING NO. SD-512.
16. MANHOLES SHALL BE CONSTRUCTED IN SEWER MAINS AT ALL CHANGES IN PIPE GRADE, ALL CHANGES IN PIPE SIZE, ALL CHANGES IN PIPE ALIGNMENT, ALL PIPE INTERSECTIONS AND AT THE TERMINATION OF ALL MAIN LINES. TEMPORARY SEWER CLEANOUTS MAY BE INSTALLED AT THE TERMINATION OF STUB MAIN LINES LESS THAN 150 FEET IN LENGTH, BUT IN SUCH INSTANCES, PROVISION MUST BE MADE FOR THE CITY TO OBTAIN ACCESS TO THE MAIN LINE BEFORE THE MAIN LINE IS BACKFILLED.
17. THE CONTRACTOR SHALL LEAVE THE EXCAVATION FOR THE UPSTREAM END OF ALL SERVICE LINES OPEN FOR FIELD VERIFICATION OF THE INVERT ELEVATIONS AND SLOPES BY THE CITY'S INSPECTOR. THE CONTRACTOR SHALL NOT BACKFILL THE ENDS OF SERVICE LINES UNTIL THE CONTRACTOR HAS OBTAINED APPROVAL FROM THE CITY ENGINEER.
18. THE CONTRACTOR SHALL INSTALL A REMOVABLE PLUG IN THE DOWN STREAM SIDE OF THE EXISTING MANHOLE WHERE THE NEW CONNECTION WILL BE MADE. THE PLUG SHALL REMAIN IN PLACE DURING CONSTRUCTION UNTIL THE END OF THIS SEWER PROJECT.
19. ALL PIPE, MAINS, AND SERVICES SHALL BE BEDDED WITH TYPE I BEDDING. IN AREAS OF ROCK EXCAVATION BEDDING SHALL BE SIX (6) INCHES BELOW THE PIPE.
20. PRIOR TO CONNECTING TO THE EXISTING SEWER SYSTEM WHERE THE CONNECTION IS MADE BETWEEN MANHOLES AND THE EXISTING SERVICES ALL SEWER MAINS AND SERVICES MUST BE AIR TESTED.

PRESSURE IRRIGATION

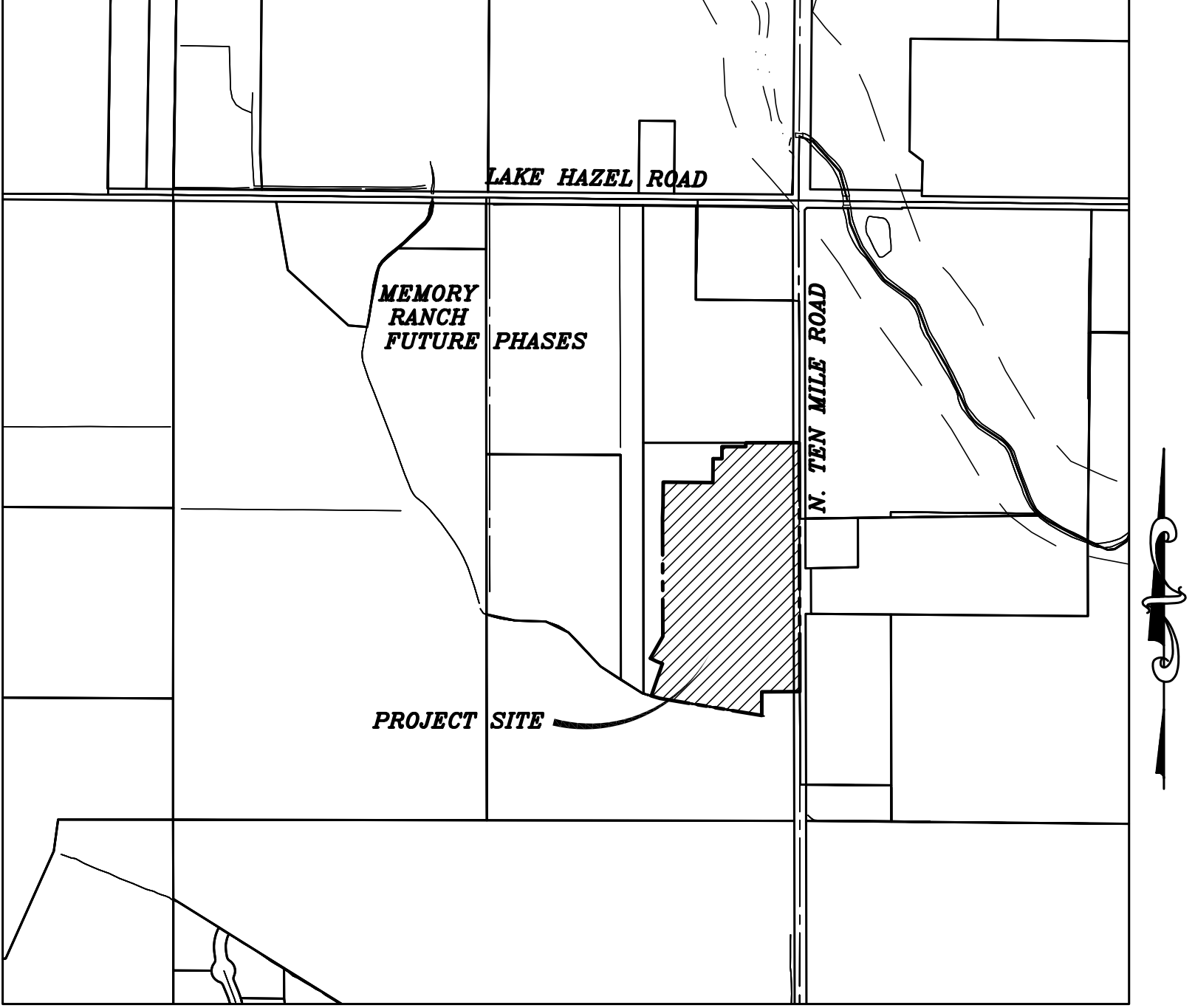
1. FOR PRESSURE IRRIGATION NOTES SEE SHEET 6.1

GENERAL LEGEND

SS	EXISTING SEWER LINE	●	SANITARY SEWER MANHOLE
W	EXISTING WATER LINE	⊙	EXISTING SANITARY SEWER MANHOLE
SD	NEW STORM DRAIN	-----	4" SEWER SERVICE LINE
W	NEW WATER LINE	➡	PROPOSED FIRE HYDRANT
S	NEW SEWER LINE	◀	2" BLOW-OFF ASSEMBLY
PI	NEW PRESSURE IRRIGATION LINE W/SERVICE	☀	EXISTING FIRE HYDRANT
x x x x x x x x	EXISTING FENCE	● c.o.	NEW SEWER LINE CLEAN OUT
EP	EXISTING EDGE OF PAVEMENT	①	LOT NUMBER
EP	NEW EDGE OF PAVEMENT		CATCH BASIN - ACHD SD-604A W/12" SUMP
---	BOUNDARY LINE	⚡	DIRECTION OF DRAINAGE FLOW
---	ROADWAY CENTER LINE	⚡	STREET LIGHT
---	ROADWAY RIGHT-OF-WAY	⚡	EXISTING DECIDUOUS TREE (CALIPER)
---	EASEMENT BOUNDARY	⚡	EXISTING POWER LINE & POLE
---	LOT LINE	▲	THRUST BLOCK PER ISPCW SD-403
---	ROLLED CURB & GUTTER	⚡	EXISTING STREET LIGHT
---	VERTICAL CURB & GUTTER		
---	EXISTING CONTOUR		
---	FINAL GRADE CONTOUR		
---	ELEVATION @ STATION		
---	POINT (TOP BACK OF ROLLED CURB UNLESS OTHERWISE NOTED)		
TVC = TOP BACK VERTICAL CURB			
TRLC = TOP REVERSE LIP CURB			
PC = POINT OF CURVATURE			
PT = POINT OF TANGENCY			
FL = GUTTER FLOW LINE			
VC = CONST. VERTICAL CURB (PER I.S.P.W.C. SD-701A)			
GB = GRADE BREAK			
GC = GRADE CHANGE			
PEDESTRIAN RAMP PER ISPCW SD-712C, OR AS SPECIFIED, W/ TRUNCATED DOMES TO BE CAST INTO THE CONCRETE (ADHESIVE MATS NOT ALLOWED) AND COLORED TRAFFIC YELLOW.			

DEVELOPMENT PLANS FOR
MEMORY RANCH SUBDIVISION NO. 1

A PORTION OF THE NE 1/4 OF SECTION 3,
TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE
MERIDIAN, KUNA, ADA COUNTY, IDAHO
2016



NAVD 1988 DATUM

VICINITY MAP

1" = 600'

PLAN SHEET INDEX

SHEET	DESCRIPTION
1.0	- COVER SHEET, INDEX, VICINITY MAP, & NOTES
2.1	- FINAL PLAT
3.1	- EXISTING SITE & DEMO PLAN
3.2	- MASTER UTILITY PLAN
3.3	- SITE GRADING PLAN
3.4	- SITE GRADING DETAILS
4.1-4.7	- STREET PLAN & PROFILE AND DETAILS
4.8	- STREET AND DRAINAGE DETAILS
5.1-5.5	- WATER & SEWER PLAN & PROFILE
5.6	- WATER & SEWER DETAILS
6.1	- PRESSURE IRRIGATION PLAN
6.2	- PRESSURE IRRIGATION DETAILS
6.3-6.5	- NOT USED

RECORD DRAWING

05-22-2017

THE ENGINEER OF RECORD CERTIFIES THAT THE PLANS ARE PREPARED IN SUBSTANTIAL CONFORMANCE WITH THE ACHD POLICY MANUAL AND STANDARDS IN EFFECT AT THE TIME OF PREPARATION. THE ENGINEER ACKNOWLEDGES THAT ACHD ASSUMES NO LIABILITY FOR ERROR OR DEFICIENCIES IN THE DESIGN. ALL VARIANCES FROM ACHD POLICY SHALL BE APPROVED IN WRITING. THE FOLLOWING VARIANCES, LISTED BY DATE AND SHORT DESCRIPTION, WERE APPROVED FOR THE PROJECT:
- NONE.

Plans Are Accepted For Public
Street Construction

By stamping and signing the improvement plans, the Registered Engineer ensures the District that the plans conform to all District policies and standards. Variances or waivers must be specifically and previously approved by the District in writing. Acceptance of the improvement plans by the District does not relieve the Registered Engineer of these responsibilities.

DATE: 05-22-2017

BY: ADA COUNTY HIGHWAY DISTRICT

DATE: 05-22-2017

DATE: 05-22-2017

DATE: 05-22-2017

DATE: 05-22-2017

DATE: 05-22-2017

DATE: 05-22-2017

DATE: 05-22-2017

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DATE: 05-22-2017

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DATE: 05-22-2017

DATE: 05-22-2017

DATE: 05-22-2017

DATE: 05-22-2017

DATE: 05-22-2017

DEVELOPER
TRILOGY DEVELOPMENT, INC.
9839 W CABLE CAR ST, SUITE 101
BOISE, ID 83709
TEL: 208-895-8858

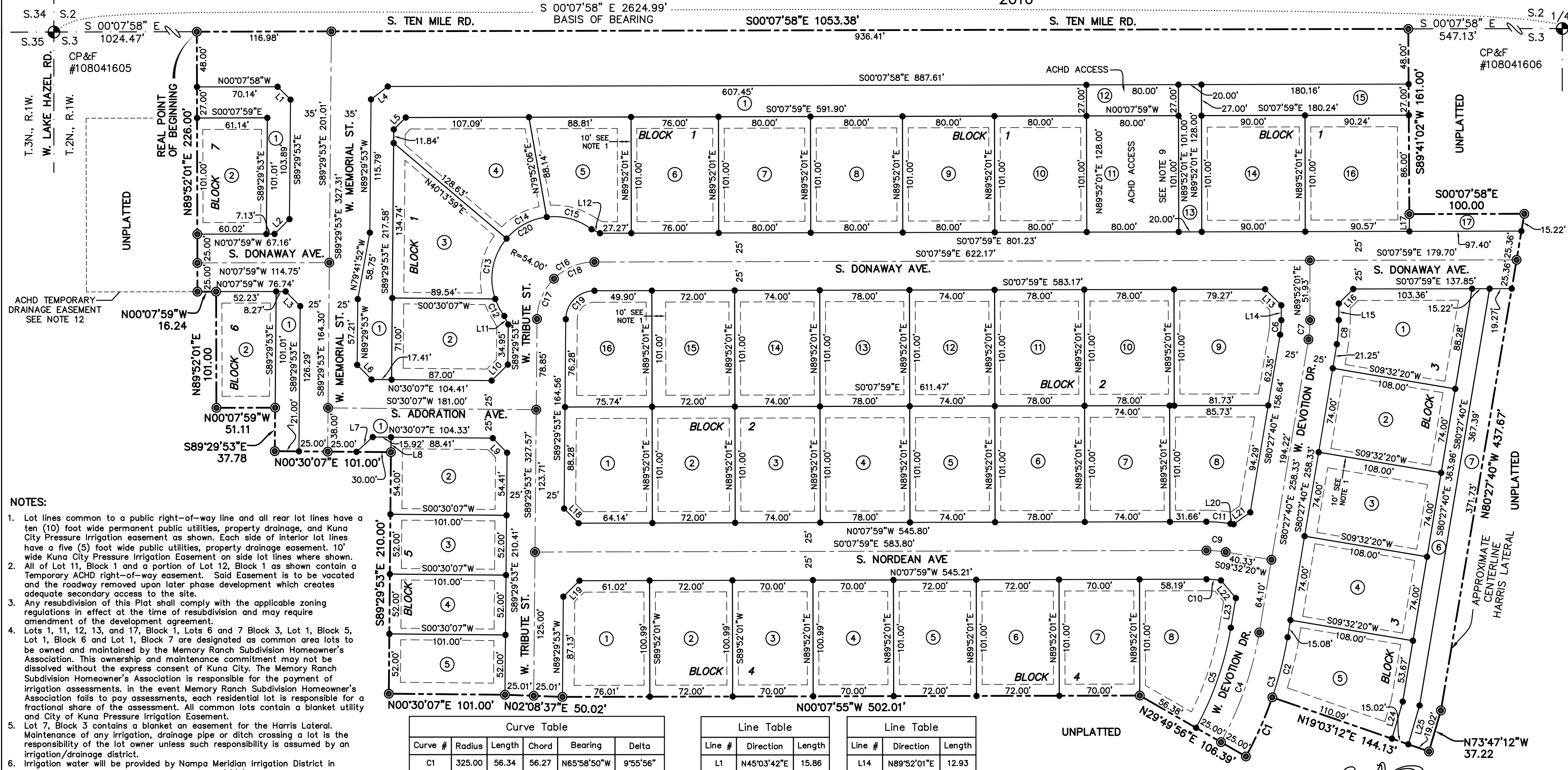
DRAWN BY: KSC | CHECKED BY: DAVID A. BAILEY P.E. | PROJECT: C2014-025 | DATE: 1-22-2016

COVER SHEET
MEMORY RANCH SUBDIVISION NO. 1
TRILOGY DEVELOPMENT, INC. SHEET 1.0



Bailey Engineering, Inc.
CIVIL ENGINEERING | PLANNING | CADD
4242 N. BROOKSIDE LANE TEL: 208-938-0013
BOISE, ID 83714 www.baileyengineering.com

PLAT SHOWING
MEMORY RANCH SUBDIVISION NO. 1
LOCATED IN THE NE 1/4 OF SECTION 3 T.2N., R.1W., B.M.,
KUNA, ADA COUNTY, IDAHO
2016



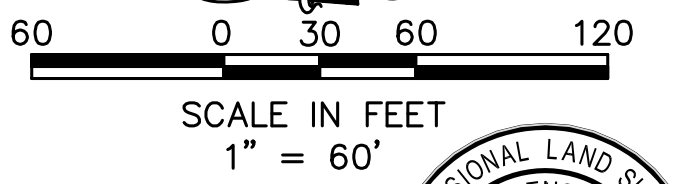
- NOTES:**
- Lot lines common to a public right-of-way line and all rear lot lines have a ten (10) foot wide permanent public utilities, property drainage, and Kuna City Pressure Irrigation easement, as shown. Each side of interior lot lines have a five (5) foot wide public utilities, property drainage easement, 10' wide Kuna City Pressure Irrigation Easement on side lot lines where shown.
 - All of Lot 11, Block 1 and a portion of Lot 12, Block 1 as shown contain a Temporary ACHD right-of-way easement. Said Easement is to be vacated and the roadway removed upon later phase development which creates adequate secondary access to the site.
 - Any resubdivision of this Plat shall comply with the applicable zoning regulations in effect at the time of resubdivision and may require amendment of the development agreement.
 - Lots 1, 11, 12, 13, and 17, Block 1, Lots 6 and 7 Block 3, Lot 1, Block 5, Lot 1, Block 6 and Lot 1, Block 7 are designated as common area lots to be owned and maintained by the Memory Ranch Subdivision Homeowner's Association. This ownership and maintenance commitment may not be dissolved without the express consent of Kuna City. The Memory Ranch Subdivision Homeowner's Association is responsible for the payment of irrigation assessments. In the event Memory Ranch Subdivision Homeowner's Association fails to pay assessments, each residential lot is responsible for a fractional share of the assessment. All common lots contain a blanket utility and City of Kuna Pressure Irrigation Easement.
 - Lot 7, Block 3 contains a blanket easement for the Harris Lateral. Maintenance of any irrigation, drainage pipe or ditch crossing a lot is the responsibility of the lot owner unless such responsibility is assumed by an irrigation/drainage district.
 - Irrigation water will be provided by Nampa Meridian Irrigation District in compliance with Idaho Code Section 31-3805(1)(b). All lots within this subdivision will be entitled to irrigation rights, and will be obligated for assessments from City of Kuna via Nampa Meridian Irrigation District. The City of Kuna will own, operate and maintain the system. See Instr. No. 2016-102042 for Annexation into Kuna Municipal Irrigation District.
 - Minimum building setbacks shall be in accordance with the City of Kuna applicable zoning and subdivision regulations at the time of issuance of individual building permits or as specifically approved and/or required.
 - This development recognizes Idaho Code Section 22-4503, right to farm act, which states: "No agricultural facility or an expansion thereof shall be or become a nuisance, private or public, by any changed conditions in or about the surrounding nonagricultural activities after it has been in operation for more than one (1) year, when the operation, facility or expansion was not a nuisance at the time it began or was constructed. The provisions of this section shall not apply when a nuisance results from the improper or negligent operation of an agricultural operation, agricultural facility or expansion thereof."
 - Lots 11 and 12, Block 1 contain a blanket ACHD temporary road access easement to the project. Lot 11 Block 1 is a restricted, non-buildable lot until such time as an alternative access is constructed later in the project. When access road improvements are removed as required by ACHD, the lot may be restored to buildable condition and be eligible for a building permit issued by the City of Kuna. When said road improvements are removed, Lot 12, Block 1 will be continue to be non-buildable and will be maintained by the Homeowner's Association per note 4 above.
 - Lot 12, Block 1 contains a permanent blanket easement for City of Kuna Domestic Water.
 - Direct lot access to S Ten Mile Road and/or N Adoration Ave. is prohibited.
 - ACHD Temporary Storm Drain Easement - See Inst. No. 2016-095094
 - ACHD Storm Drain Easement - See Inst. No. 2016-095095
 - ACHD License Agreement - See Inst. No. 2016-095088

Curve Table					
Curve #	Radius	Length	Chord	Bearing	Delta
C1	325.00	56.34	56.27	N85°58'50"W	9°55'56"
C2	325.00	53.97	53.91	N75°42'14"W	9°30'53"
C3	325.00	110.31	109.78	S70°44'16"E	19°26'49"
C4	300.00	101.45	100.97	S70°46'23"E	19°22'35"
C5	275.00	92.60	92.16	S70°48'53"E	19°17'34"
C6	75.00	12.66	12.65	S85°17'50"E	9°40'19"
C7	100.00	16.88	16.86	S85°17'50"E	9°40'19"
C8	125.00	21.10	21.08	N85°17'50"W	9°40'19"
C9	100.00	16.88	16.86	S04°42'10"W	9°40'19"
C10	75.00	12.66	12.65	N04°42'10"E	9°40'19"
C11	125.00	21.10	21.08	S04°42'10"W	9°40'19"
C12	54.00	16.86	16.79	N62°04'21"E	17°53'23"
C13	54.00	55.81	53.36	S79°22'30"E	59°12'57"
C14	54.00	40.58	39.64	S28°14'11"E	43°03'40"
C15	54.00	41.42	40.41	S15°16'03"W	43°56'50"
C16	50.00	77.99	70.32	S44°48'56"E	89°21'54"
C17	50.00	38.99	38.01	N67°09'25"W	44°40'57"
C18	50.00	38.99	38.01	N22°28'28"W	44°40'57"
C19	25.00	38.99	35.16	N44°48'56"W	89°21'54"
C20	54.00	154.67	106.96	N44°48'56"W	164°06'50"

Line Table		
Line #	Direction	Length
L1	N45°03'42"E	15.86
L2	S44°48'56"E	18.30
L3	N45°11'04"E	17.90
L4	N37°39'10"W	18.42
L5	S44°48'56"E	14.69
L6	S45°30'07"W	17.80
L7	N42°12'27"W	19.17
L8	S89°29'53"E	13.00
L9	N45°30'07"E	17.80
L10	S44°29'53"E	19.80
L11	N65°04'12"E	8.07
L12	S25°17'55"W	8.07
L13	N44°52'01"E	19.80

Line Table		
Line #	Direction	Length
L14	N89°52'01"E	12.93
L15	S89°52'01"W	14.35
L16	N45°07'59"W	17.80
L17	N89°41'02"E	15.00
L18	S45°11'04"W	17.90
L19	N44°48'56"W	19.72
L20	S09°32'20"W	2.74
L21	S35°27'40"E	17.80
L22	N49°50'16"E	20.10
L23	S80°27'40"E	26.10
L24	S73°47'12"E	33.55
L25	S73°47'12"E	35.17

- LEGEND**
- Subdivision Boundary
 - Section Line
 - Easement line (See Note 1)
 - Existing Easement line (As noted)
 - Street Centerline
 - Lot Line
 - Lot Number
 - Found Aluminum cap
 - Set 5/8" x 24" Iron Pin with Plastic Cap, PLS 7729
 - Set 1/2" x 24" Iron Pin with Plastic Cap, PLS 7729



Bailey Engineering, Inc.
Civil Engineering | Planning | CADD
4242 N. BROOKSIDE LANE
BOISE, ID 83714
TEL: 208-938-0013
www.baileyengineers.com

THE PLAT HAS BEEN ADDED TO THE DRAWINGS FOR REFERENCE PURPOSES ONLY. FOR EXACT INFORMATION REFER TO THE RECORDED PLAT OF MEMORY RANCH SUBDIVISION NO. 1

RECORD DRAWING
05-22-2017

REVISED	NO.	DATE	DESCRIPTION
DRAWN BY: DAB	CHECKED BY: DAVID A. BAILEY P.E.	PROJECT: C2014-025	DATE: 1-22-2016
FINAL PLAT			
MEMORY RANCH SUBDIVISION NO. 1			
TRILOGY DEVELOPMENT, INC.			
SHEET 2.1			

Bailey Engineering, Inc.
Civil Engineering | Planning | CADD
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FUTURE PHASE
MEMORY RANCH
SUBDIVISION

FUTURE PHASE
MEMORY RANCH
SUBDIVISION

FUTURE PHASE
MEMORY RANCH
SUBDIVISION

KEYNOTES

- ① PROTECT HARRIS LATERAL.
- ② PROTECT EXISTING SEWER MAIN.
- ③ PROTECT EXISTING WATER MAIN.
- ④ PROTECT OR RELOCATE EXISTING GAS MAIN AS NECESSARY.
- ⑤ DEMO EXISTING FENCE AND DISPOSE OF OFFSITE.
- ⑥ DEMO APPROX. 700 LF EXISTING CONCRETE IRRIGATION DITCH AND DISPOSE OF OFFSITE.
- ⑦ FILL APPROX 130 LF OF IRRIGATION DITCH.
- ⑧ EXISTING POWER POLE TO BE RELOCATED. COORDINATE W/ IDAHO POWER.
- ⚠⑨ COORDINATE PROTECTION/DEMOLITION OF EXISTING FENCE W/ TRILOGY DEVELOPMENT.
- ⚠⑩ ABANDON EXISTING 12" PIPE IN PLACE.
- ⚠⑪ BLOCKOUT EXISTING 12" INLET. GROUT SMOOTH TO FORM WATER-TIGHT SEAL. CONTRACTOR TO COORDINATE OFFSITE CONSTRUCTION W/ HOMEOWNER.

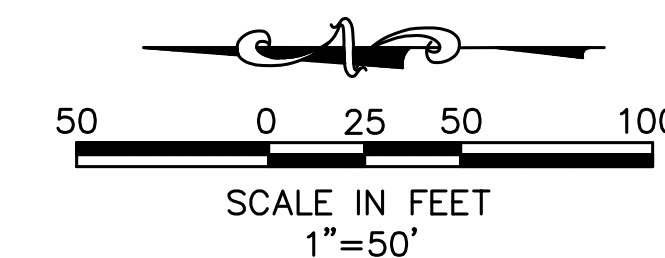
NOTE:
ABANDONED BUILDINGS, TEST PITS OR WATERWAYS LOCATED WITHIN CURRENT OR FUTURE RIGHT-OF-WAY SHALL BE RE-EXCAVATED TO NATIVE SOIL AND BACKFILLED WITH STRUCTURAL FILL PER ISPMC SPECIFICATIONS.


NOTE:
ACTUAL CONDITIONS DURING TRENCHING MAY REQUIRE ADDITIONAL PAVEMENT REPAIR BEYOND THE LIMITS SHOWN ON THE PLAN. THE FOLLOWING CONDITIONS ARE LISTED IN SECTION 6000 OF THE ACHD POLICY MANUAL.

1. ALL ASPHALT MATCH LINES FOR PAVEMENT REPAIR SHALL BE PARALLEL TO THE CENTERLINE OF THE STREET AND INCLUDE ANY AREA DAMAGED BY EQUIPMENT DURING TRENCHING OPERATIONS.
2. IF THE CUMULATIVE DAMAGED PAVEMENT AREA EXCEEDS 50% OF THE TOTAL ROAD SURFACE, CONTRACTOR SHALL REPLACE THE ENTIRE ROADWAY SURFACE.
3. CONTRACTOR SHALL REPLACE THE PAVEMENT SURFACE TO ENSURE MATCH LINE DOES NOT FALL WITHIN THE WHEEL PATH OF A LANE. MATCH LINE SHALL ONLY FALL IN THE CENTER OR EDGE OF A TRAVEL LANE.
4. FLOWABLE FILL OR IMPORTED MATERIAL MAY BE REQUIRED IF THE NATIVE TRENCH MATERIAL IS DEEMED UNSUITABLE BY ACHD INSPECTOR, DOES NOT MEET COMPACTION STANDARDS OR TIME IS A CRITICAL FACTOR.
5. ANY EXCEPTIONS TO THESE RULES SHALL BE PRE-APPROVED IN WRITING BY DISTRICT STAFF BEFORE CONSTRUCTION BEGINS.

RECORD DRAWING

05-22-2017



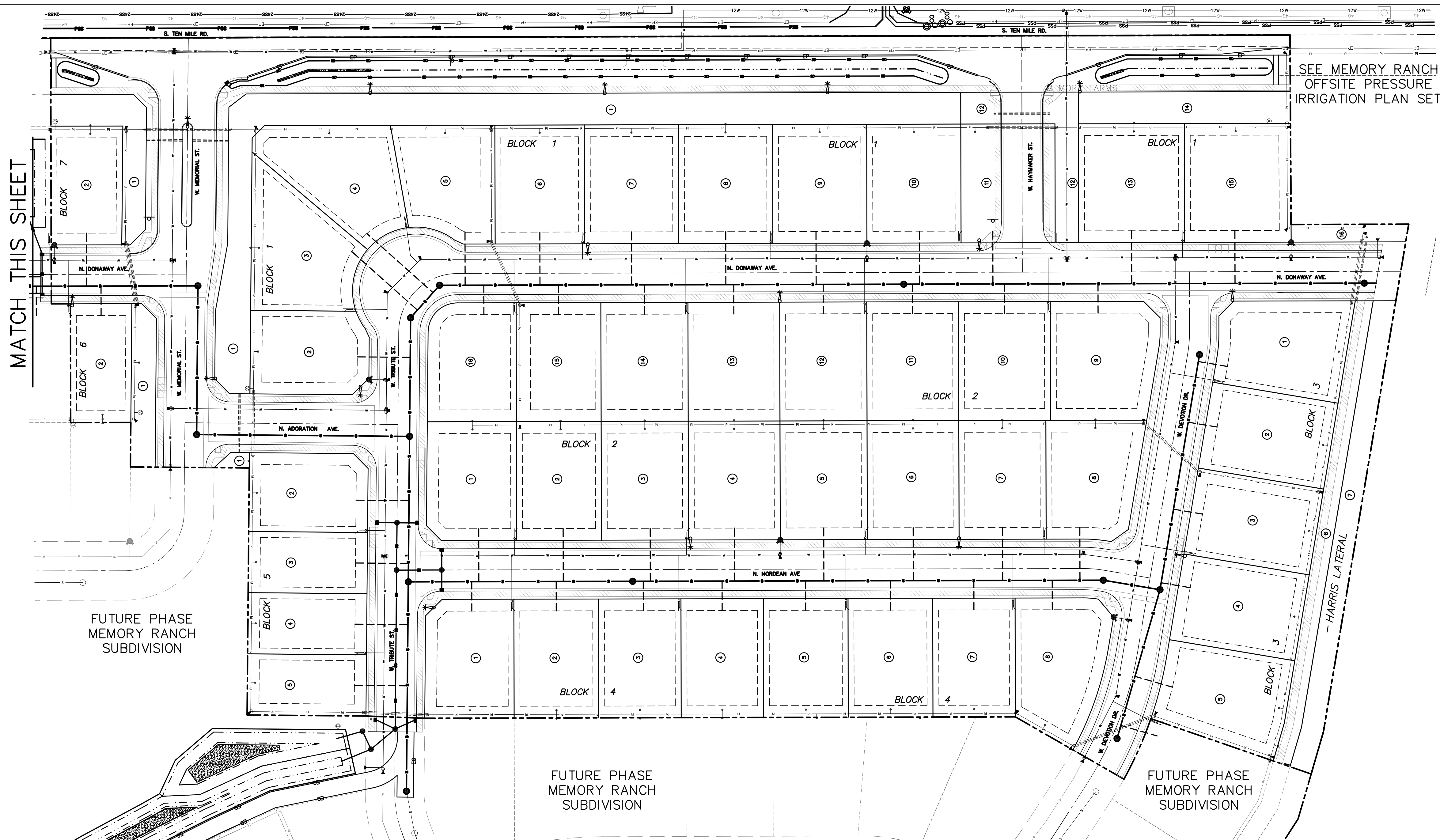
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03-02-2016	CITY OF KUNA & ACHD			
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EXISTING SITE AND DEMO PLAN				
MEMORY RANCH SUBDIVISION NO. 1				
TRILOGY DEVELOPMENT, INC.				
				SHEET 3.1

Bailey Engineering, Inc.

CIVIL ENGINEERING | PLANNING | CADD

4242 N. BROOKSIDE LANE TEL: 208-938-0013

BOISE, ID 83714 www.baileyengineers.com



SEE MEMORY RANCH
OFFSITE PRESSURE
IRRIGATION PLAN SET

MATCH THIS SHEET

MATCH THIS SHEET

FUTURE PHASE
MEMORY RANCH
SUBDIVISION

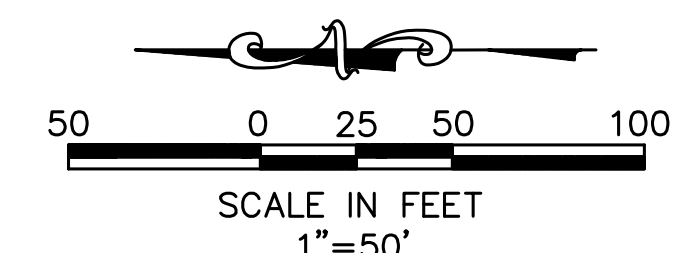
FUTURE PHASE
MEMORY RANCH
SUBDIVISION

FUTURE PHASE
MEMORY RANCH
SUBDIVISION

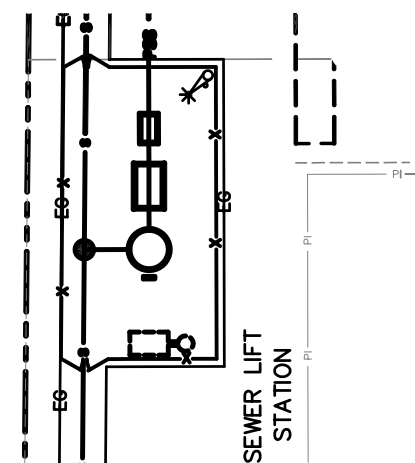
RECORD DRAWING
05-22-2017

LEGEND

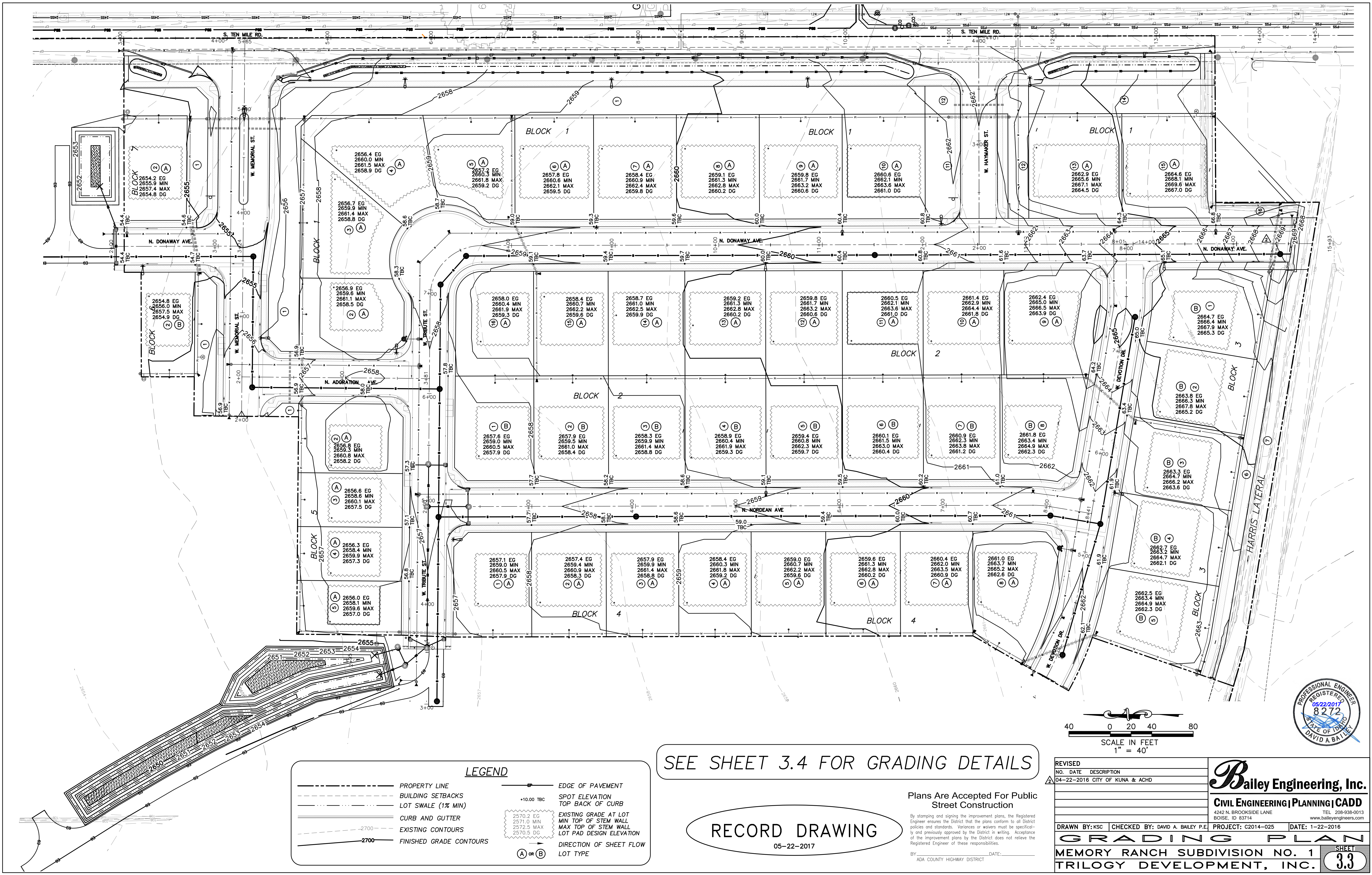
SS	EXISTING SEWER LINE	●	SANITARY SEWER MANHOLE
W	EXISTING WATER LINE	○	EXISTING SANITARY SEWER MANHOLE
SD	NEW STORM DRAIN	---	4" SEWER SERVICE LINE
W	NEW WATER LINE	—○—	TYPICAL SINGLE WATER SERVICE
S	NEW SEWER LINE	—○—	TYPICAL DOUBLE WATER SERVICE
PI	NEW PRESSURE IRRIGATION LINE W/SERVICE	●	PROPOSED FIRE HYDRANT
IRR	NEW GRAVITY IRRIGATION LINE	①	LOT NUMBER
---	BOUNDARY LINE	■	CATCH BASIN
---	ROADWAY CENTER LINE	⚡	STREET LIGHT
---	ROADWAY RIGHT-OF-WAY		
---	LOT LINE		
---	PROPOSED FUTURE LOT LINE		



REVISED		Bailey Engineering, Inc. CIVIL ENGINEERING PLANNING CADD 4242 N. BROOKSIDE LANE BOISE, ID 83714 TEL 208-938-0013 www.baileyengineering.com
NO.	DATE DESCRIPTION	
DRAWN BY: KSC CHECKED BY: DAVID A. BAILEY P.E. PROJECT: C2014-025 DATE: 1-22-2016		MASTER UTILITY PLAN MEMORY RANCH SUBDIVISION NO. 1 TRILOGY DEVELOPMENT, INC.
SHEET		
3.2		



SEWER LIFT
STATION



LEGEND

—	PROPERTY LINE	—	EDGE OF PAVEMENT
- - -	BUILDING SETBACKS	•	SPOT ELEVATION
- - -	LOT SWALE (1% MIN)	—	TOP BACK OF CURB
—	CURB AND GUTTER	—	EXISTING GRADE AT LOT
- - -	EXISTING CONTOURS	—	MIN. TOP OF STEM WALL
—	FINISHED GRADE CONTOURS	—	MAX. TOP OF STEM WALL
		—	LOT PAD DESIGN ELEVATION
		—	DIRECTION OF SHEET FLOW
		—	LOT TYPE

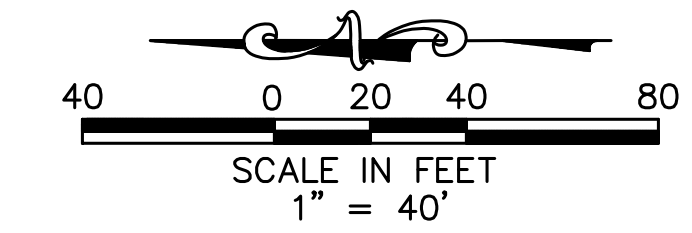
SEE SHEET 3.4 FOR GRADING DETAILS

RECORD DRAWING
05-22-2017

Plans Are Accepted For Public Street Construction

By stamping and signing the improvement plans, the Registered Engineer ensures the District that the plans conform to all District policies and standards. Variances or waivers must be specifically and previously approved by the District in writing. Acceptance of the improvement plans by the District does not relieve the Registered Engineer of these responsibilities.

BY: _____ DATE: _____
ADA COUNTY HIGHWAY DISTRICT



REVISED	NO.	DATE	DESCRIPTION
Δ	04-22-2016	CITY OF KUNA & ACHD	

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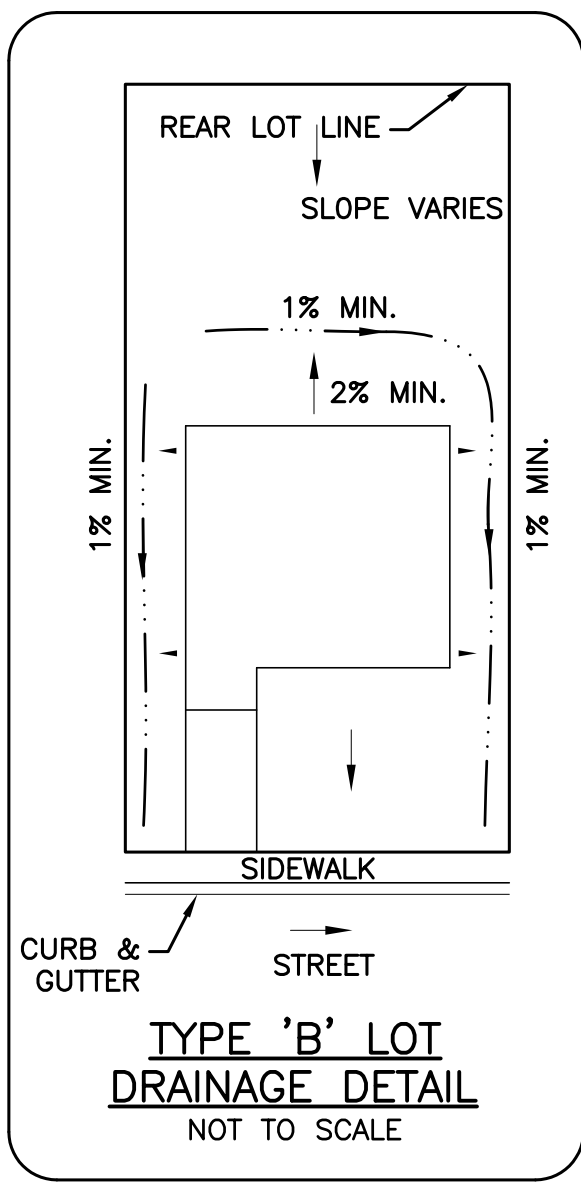
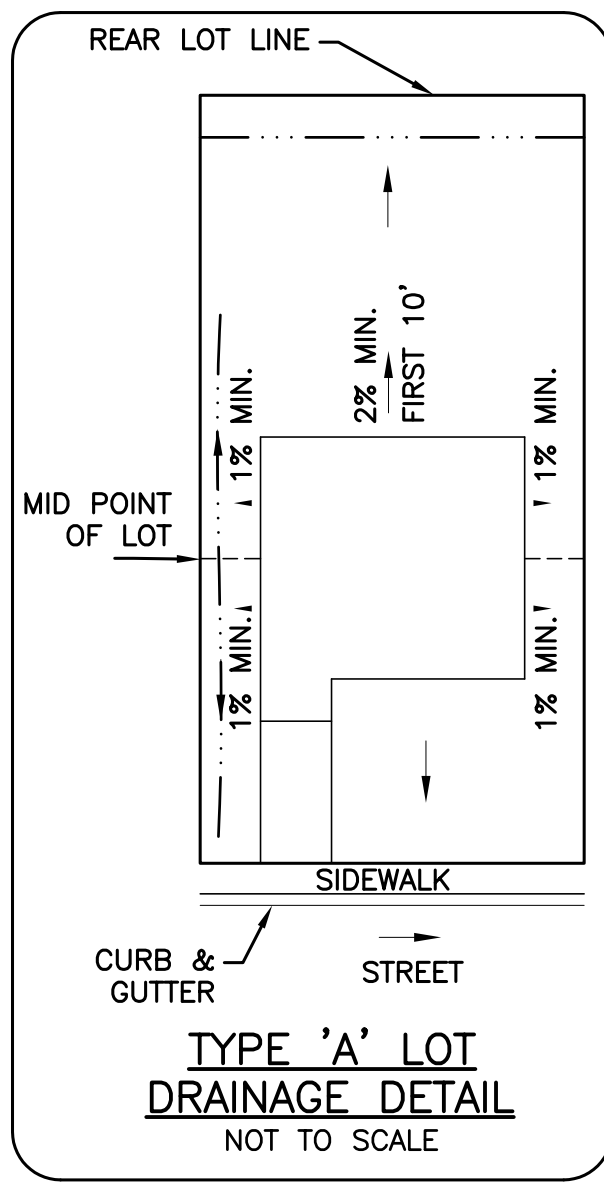
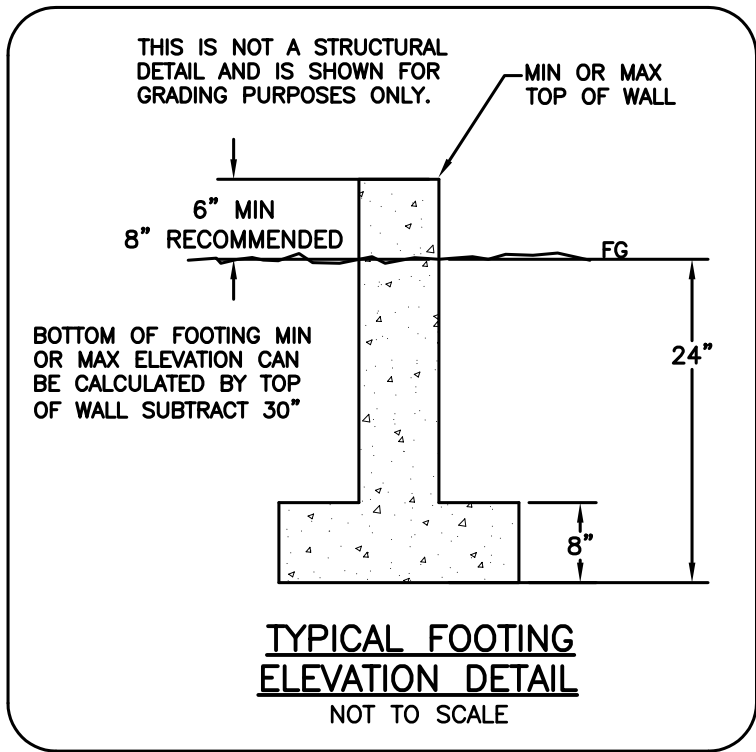
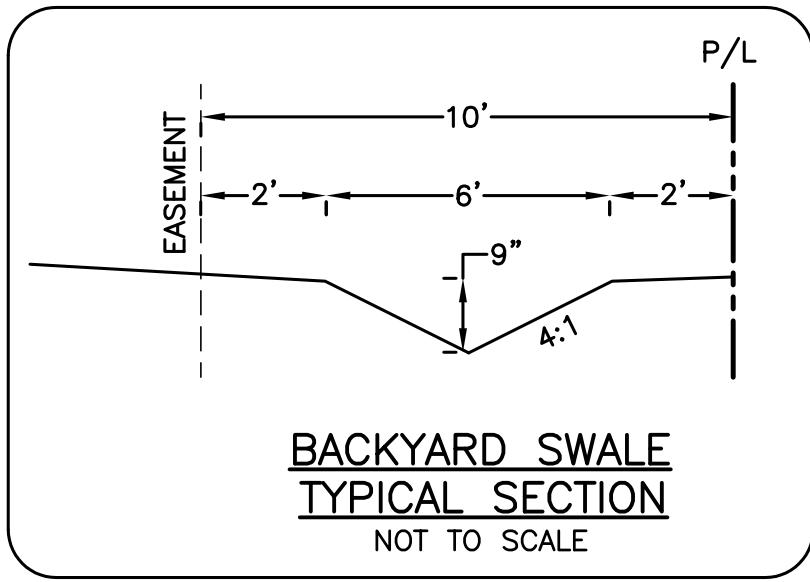
DRAWN BY: KSC | CHECKED BY: DAVID A. BAILEY P.E. | PROJECT: C2014-025 | DATE: 1-22-2016

GRADING PLAN

MEMORY RANCH SUBDIVISION NO. 1
TRILOGY DEVELOPMENT, INC.

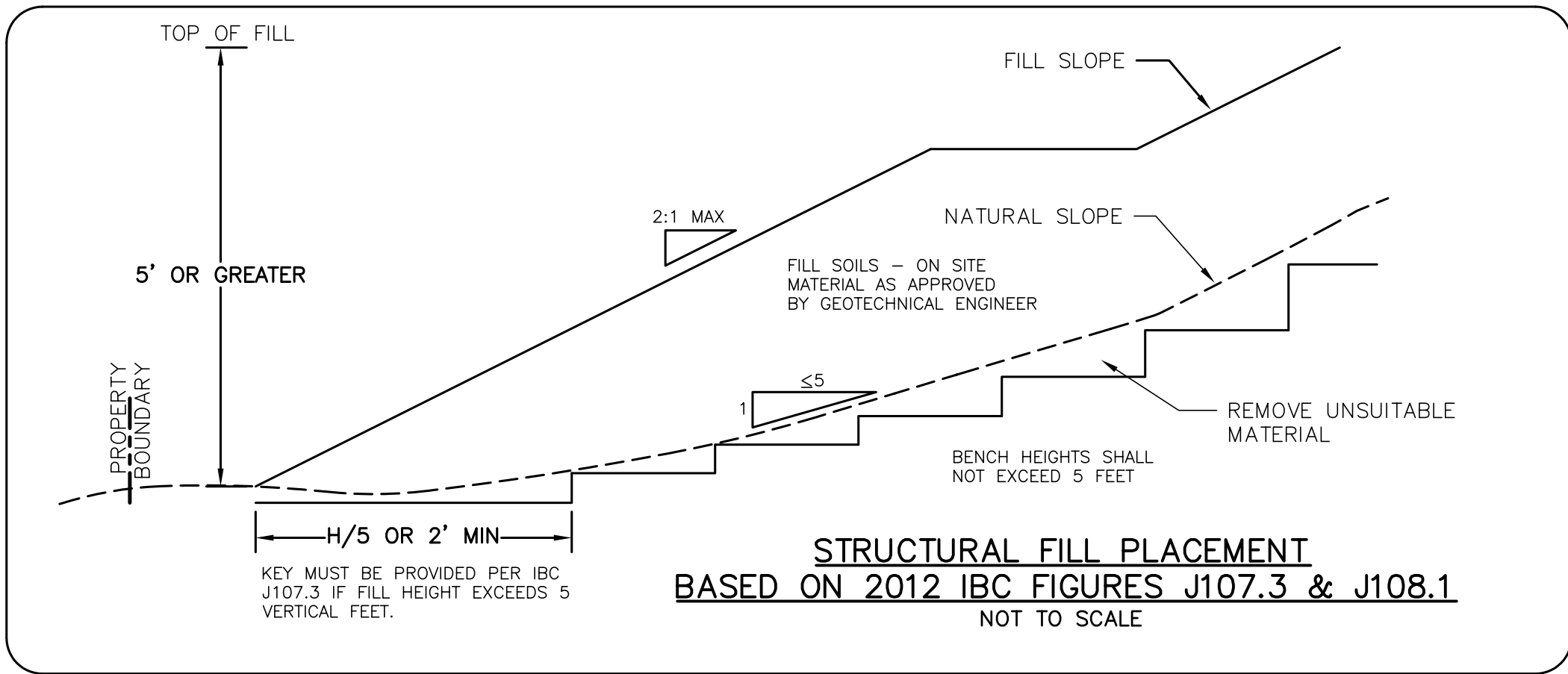
SHEET 3.3





SITE GRADING

1. ALL GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN.
2. A CONSTRUCTION PROJECT SCHEDULE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND SHALL BE PERIODICALLY UPDATED IF CONDITIONS OR SCHEDULES CHANGE. CONSTRUCTION SHALL BE SCHEDULED TO MINIMIZE SOIL DISTURBANCE. ALL DISTURBED SURFACES SHALL BE STABILIZED IN A TEMPORARY OR PERMANENT MANNER AS APPROPRIATE DURING CONSTRUCTION TO PREVENT SOIL EROSION.
3. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY SITE CONSULTING, LLC DATED 03-13-2015.
4. ORGANIC SOILS SHALL BE REMOVED AS RECOMMENDED IN THE GEOTECHNICAL REPORT AND WASTED OR STOCKPILED FOR USE IN FINE GRADING.
5. PRIOR TO COMMENCING STRUCTURAL FILL, THE EXISTING SITE DEBRIS MUST BE REMOVED, THE NATIVE SOILS STRIPPED OF ALL ORGANIC MATERIAL, STOCKPILES OF SUITABLE MATERIAL SHALL BE SEGREGATED FROM UNSUITABLE MATERIALS. ALL WASTE AND HIGHLY ORGANIC OR OTHERWISE CONTAMINATED SOILS SHALL BE REMOVED FROM THE SITE AND NOT STOCKPILED FOR ANY PERIOD OF TIME. WHERE PRACTICAL, STOCKPILES OF MATERIALS TO BE USED AS STRUCTURAL FILL SHALL BE PLACED ON NATIVE, STRIPPED SOILS TO PREVENT CONTAMINATION.
6. EXACT REMOVAL DEPTHS OF ORGANIC MATERIALS SHALL BE DETERMINED DURING GRADING OPERATIONS BY A QUALIFIED GEOTECHNICAL REPRESENTATIVE AND/OR THE PROJECT ENGINEER, AND SHALL BE BASED ON SUBGRADE SOIL TYPE, COMPOSITION, AND FIRMNESS OR SOIL STABILITY.
7. ALL MATERIAL USED FOR STRUCTURAL FILL SHALL MEET THE REQUIREMENTS FOR STRUCTURAL FILL AS DESCRIBED IN THE GEOLOGY AND GEOTECHNICAL REPORT. STRUCTURAL FILL MUST BE USED WHERE FILL HEIGHT EXCEEDS ONE (1) VERTICAL FOOT OR WHERE RECOMMENDED BY REFERENCED GEOTECHNICAL REPORT.
8. STRUCTURAL FILL SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOLOGY AND GEOTECHNICAL REPORT AND COMPACTION SHALL BE SUPERVISED BY A QUALIFIED GEOTECHNICAL REPRESENTATIVE AND/OR THE PROJECT ENGINEER. MATERIAL SHALL BE PLACED IN 8" LIFTS UNLESS OTHERWISE APPROVED BY THE GEOTECHNICAL ENGINEER.
9. ALL STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 FOR BUILDING LOTS OR D 698 FOR ROAD AREAS. ONE IN-PLACE DENSITY TEST PER LIFT SHALL BE CONDUCTED FOR EVERY 5000 SQUARE FEET OF LIFT AREA FOR BUILDING STRUCTURES (ONE PER LOT) OR FOR EVERY 100 LINEAR FEET OF LIFT AREA IN PARKING AND DRIVEWAY AREAS.
10. SHALLOW EXCAVATIONS THAT DO NOT EXCEED 4 FEET MAY BE CONSTRUCTED WITH SIDE SLOPES APPROACHING VERTICAL. BELOW THIS DEPTH, SLOPES SHALL NOT EXCEED 1-1/2 FOOT VERTICAL TO 1 FOOT HORIZONTAL.
11. FINAL SITE GRADES (CUT OR FILL) SHALL NOT EXCEED 1 FOOT VERTICAL TO 2 FEET HORIZONTAL.
12. PRIOR TO PLACEMENT OF STRUCTURAL FILL, THE GROUND SHALL BE PREPARED IN ACCORDANCE WITH APPENDIX J, "GRADING" OF THE INTERNATIONAL BUILDING CODE, FIGURE J107.3 AND AS DIRECTED BY THE PROJECT ENGINEER AND/OR THE GEOTECHNICAL ENGINEER.
13. ALL FINAL GRADING SHALL EMPLOY SLOPE ROUNDING AT TOPS OF SLOPES AND AT CHANGES IN HORIZONTAL SLOPE ALIGNMENT TO FACILITATE REVEGETATION AND PROVIDE AN ASTHETICALLY ACCEPTABLE APPEARANCE.
14. DURING ALL GRADING OPERATIONS AND UNTIL THE ESTABLISHMENT OF PERMANENT REVEGETATION, THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED STORMWATER PREVENTION PLAN.



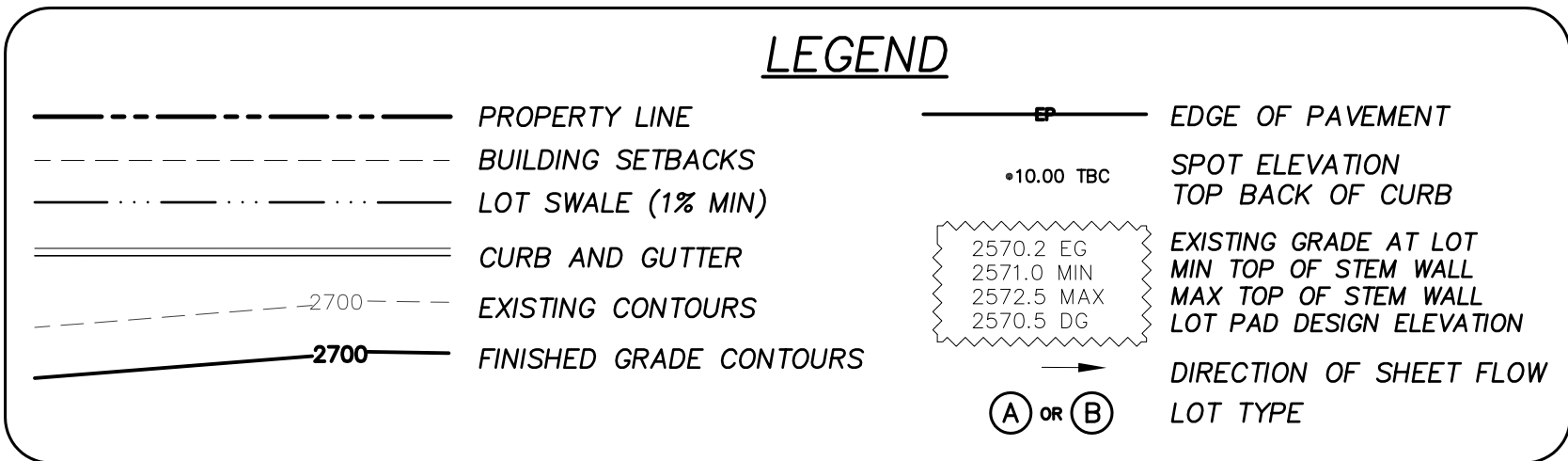
NOTES:

1. THE BUILDING ENVELOPES ARE BASED ON CITY OF KUNA SETBACKS APPROVED WITH THE MEMORY RANCH SUBDIVISION DEVELOPMENT.
2. THE MINIMUM TOP OF STEM WALL ELEVATIONS ARE BASED ON A 6" REVEAL, A 6" DROP IN THE FIRST TEN FEET, AND THEN 2% TO THE LOWEST TOP BACK OF CURB FOR THE LOT.
3. FOUNDATIONS MAY BE STEPPED A MAXIMUM OF 2 FEET.
4. REAR YARD SWALES SHOULD BE NO CLOSER THAN 10 FEET FROM THE STRUCTURE.
5. THE BUILDING CONTRACTOR SHALL REVIEW & FOLLOW FOUNDATION & CRAWL SPACE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT BY SITE CONSULTING, LLC DATED MARCH 13, 2015.
6. EACH BUILDER SHALL CONTINUE BACKYARD SWALE.
7. EXCEPTIONS TO THIS GRADING PLAN MAY BE APPROVED BY THE CITY OF KUNA BUILDING OFFICIAL AT ISSUANCE OF BUILDING PERMIT BASED UPON REVIEW OF AN ENGINEERED INDIVIDUAL LOT GRADING PLAN.
8. QUANTITIES ARE APPROXIMATE RAW VOLUMES WITHOUT ADJUSTMENT FOR COMPACTION:

△ GRADING NOTES AND VOLUMES:

STRIP VOLUME 4"	= ±7,687 cy CUT
ROAD EXCAVATION TO SUBGRADE	
CUT TO SUBGRADE = ±4,650 cy	
FILL TO SUBGRADE = ±421 cy	
NET	= ±4,229 cy CUT
NET EXCAVATE UTILITIES	
TOTAL	= ±983 cy CUT
NET FILL TO FINAL GRADE ON LOTS FROM STRIPPED SURFACE	= ±11,445 cy FILL
NET EXPORT	= ±1,718 cy CUT

ALL CALCULATIONS ARE RAW VOLUMES BASED ON ROAD AND FINAL SURFACE MODELS DEPICTED ON THIS GRADING PLAN. THESE NUMBERS MAY VARY DUE TO ACTUAL SOIL COMPACTION AND SOIL SHRINKAGE.



RECORD DRAWING

05-22-2017

Plans Are Accepted For Public Street Construction

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BY _____ DATE: _____
ADA COUNTY HIGHWAY DISTRICT

REVISED	NO.	DATE	DESCRIPTION
△	03-02-2016	CITY OF KUNA & ACHD	
△	04-22-2016	CITY OF KUNA & ACHD	

DRAWN BY: KSC CHECKED BY: DAVID A. BAILEY P.E.

PROJECT: C2014-025 DATE: 1-22-2016

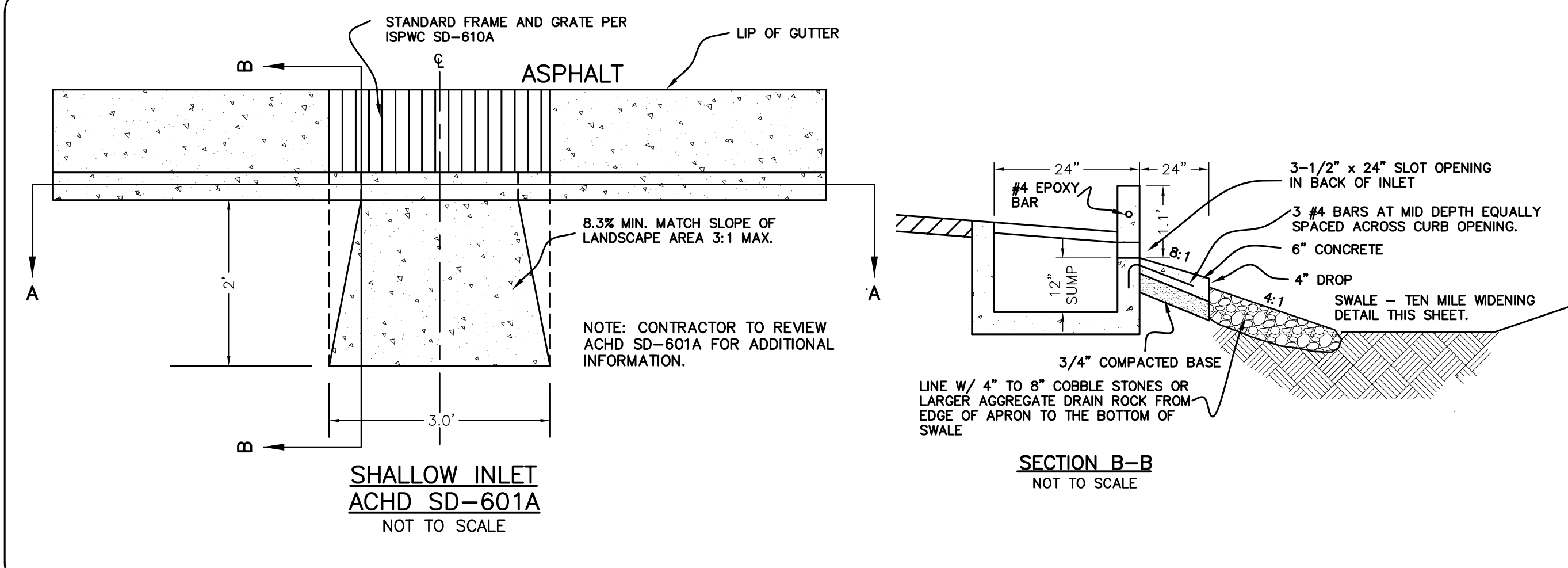
GRADING DETAILS
MEMORY RANCH SUBDIVISION NO. 1
TRILOGY DEVELOPMENT, INC.

SHEET
3.4

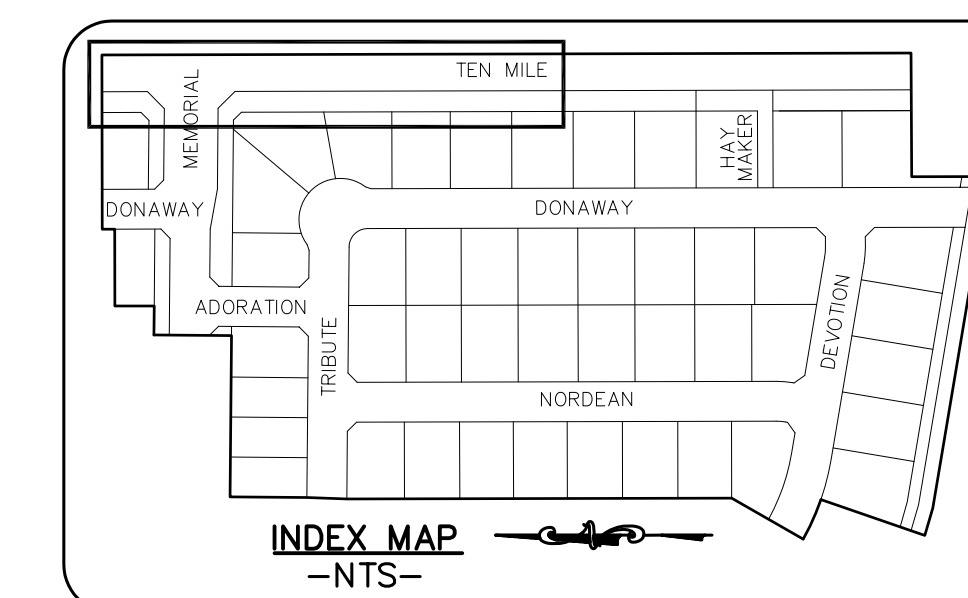
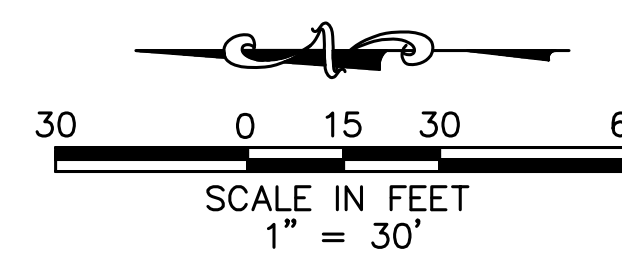


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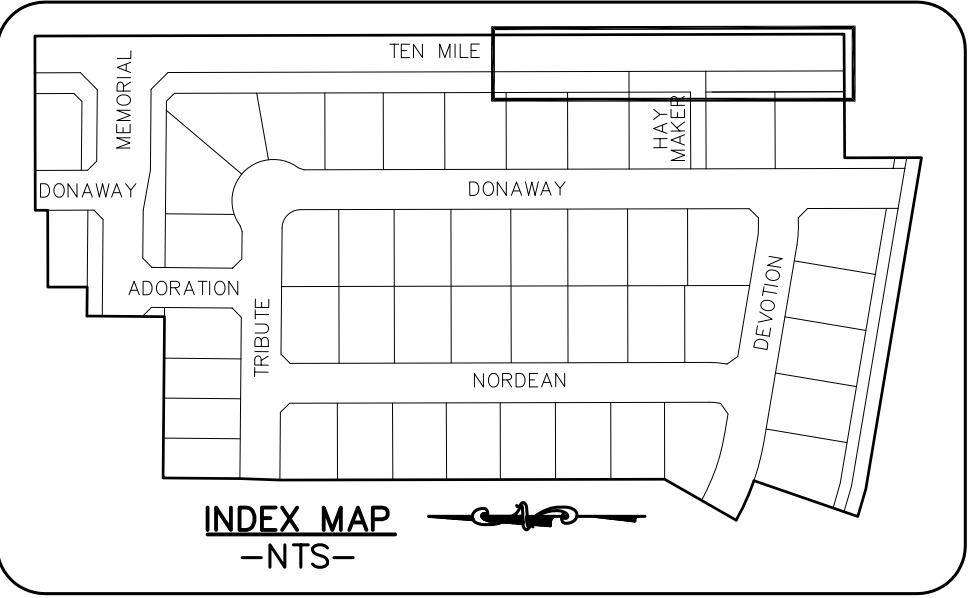
4242 N. BROOKSIDE LANE
BOISE, ID 83714
TEL 208-938-0013
www.baileyengineers.com



- KEYNOTES**
- (A) 4" WHITE PER ACHD STRIPING DETAIL #17
- (2)(B) INSTALL SPEED LIMIT SIGN ("SPEED LIMIT 50") PER MUTCD R-2 & ACHD SUPPLEMENTAL TS-1114.



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STREET PLAN AND PROFILE					
MEMORY RANCH SUBDIVISION NO. 1					SHEET 4.1
TRILOGY DEVELOPMENT, INC.					

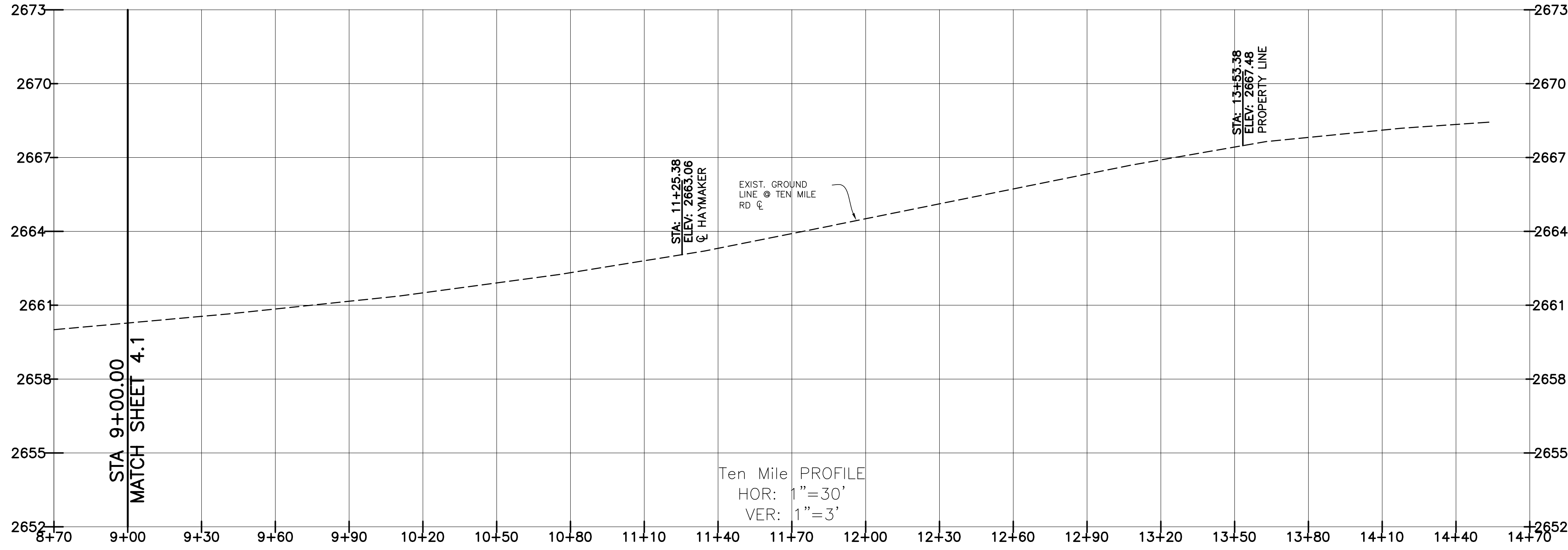
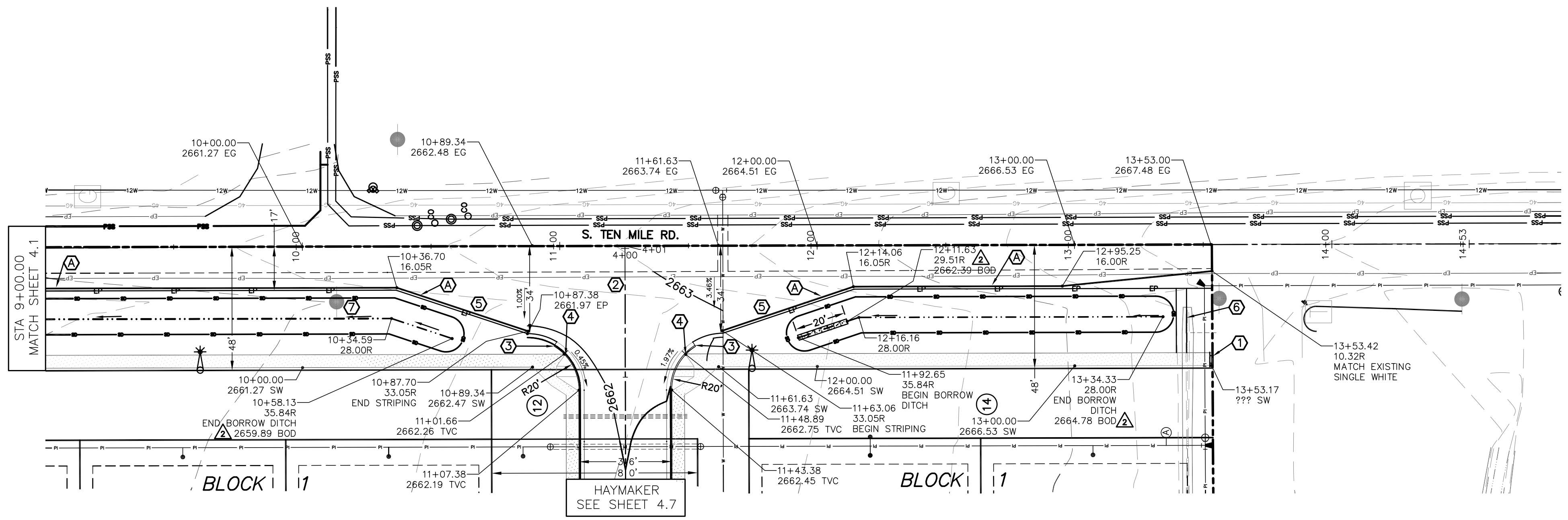
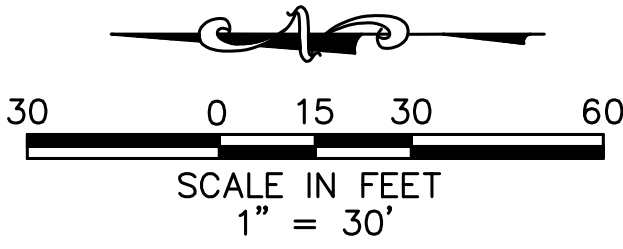


KEYNOTES

1. INSTALL TYPE II SIDEWALK BARRICADE PER ACHD SD-1132A W/ THICKENED EDGE ALUMINUM WITH STRIPED DECALS W/ KICK PLATE. NOTE: WHERE SIDEWALK ENDS AT GRAVEL TURNAROUND, PROVIDE SMOOTH TRANSITION TO GRAVEL (WITHOUT BARRICADE.)
2. SAWCUT EXIST. ASPHALT AS REQUIRED (MIN. 2') FOR 1% TO 4% GROSS SLOPE (PER. ACHD SD-806, SD-301, & SD-303)
3. PROVIDE CURB TERMINUS PER ISPCW SD-707.
4. CONSTRUCT PEDESTRIAN RAMP PER ISPCW SD-712C.
NOTE: ADA STANDARDS REQUIRE THAT CROSS SLOPES SHALL NOT EXCEED 2% ON ANY PEDESTRIAN RAMP OR SIDEWALK. ACHD WILL NOT ALLOW ANY TOLERANCE FROM THIS REQUIREMENT.
NOTE: ALL PEDESTRIAN RAMPS MUST HAVE DETECTABLE WARNING PER ISPCW SD-712.
5. CONSTRUCT TAPER AS SHOWN TO TEN MILE RD WIDENING SECTION - SEE SHEET 4.1.
6. CONSTRUCT 4' WIDE ASPHALT PATHWAY FROM SIDEWALK TO EDGE OF PAVEMENT.
7. EXISTING POWER POLE TO BE RELOCATED - SEE EXISTING SITE & DEMO SHEET 3.1.

KEYNOTES

1. 4" WHITE PER ACHD STRIPING DETAIL #17



RECORD DRAWING
05-22-2017

Plans Are Accepted For Public
Street Construction

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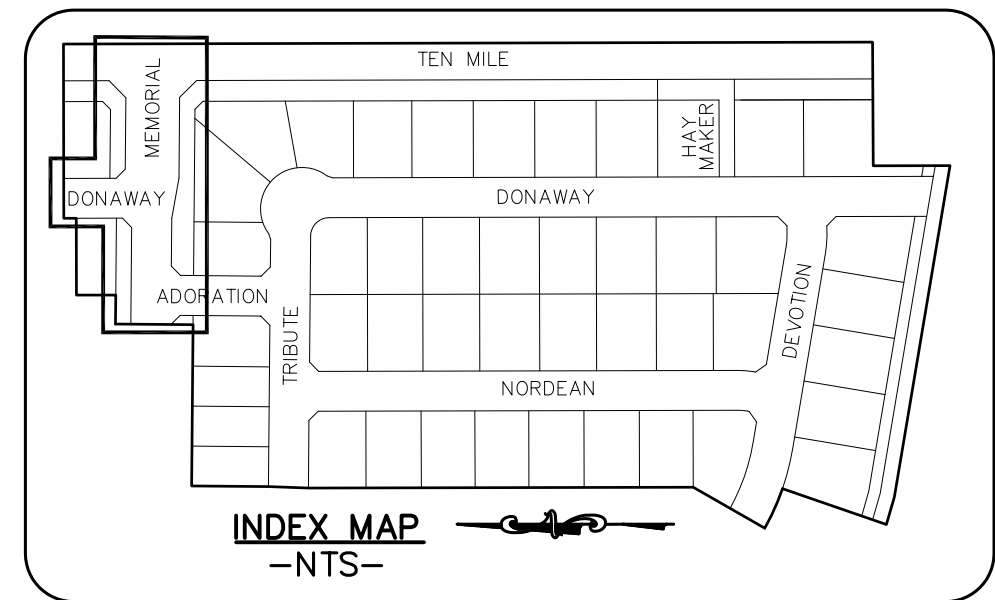
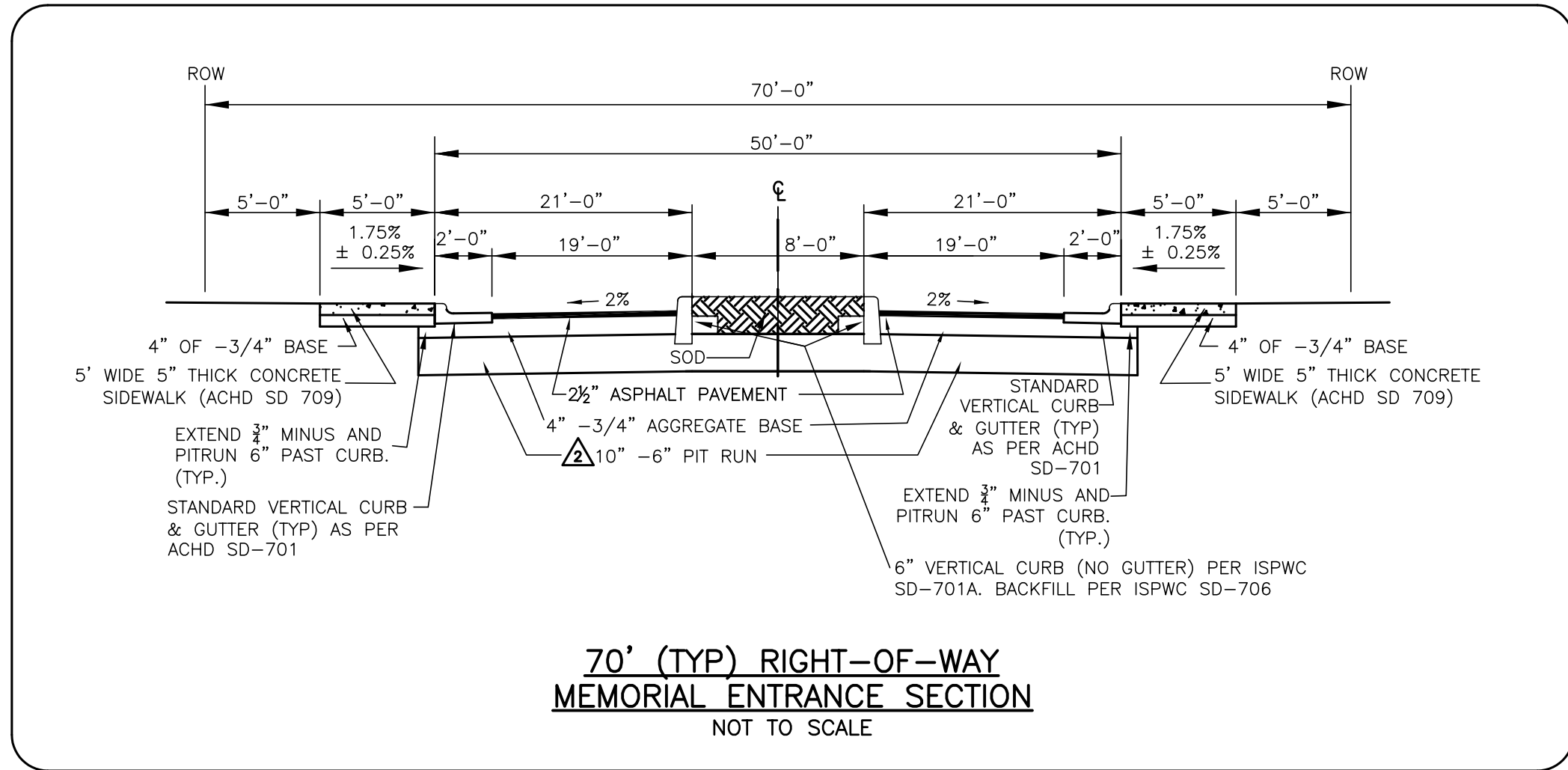
BY _____ DATE: _____
ADA COUNTY HIGHWAY DISTRICT



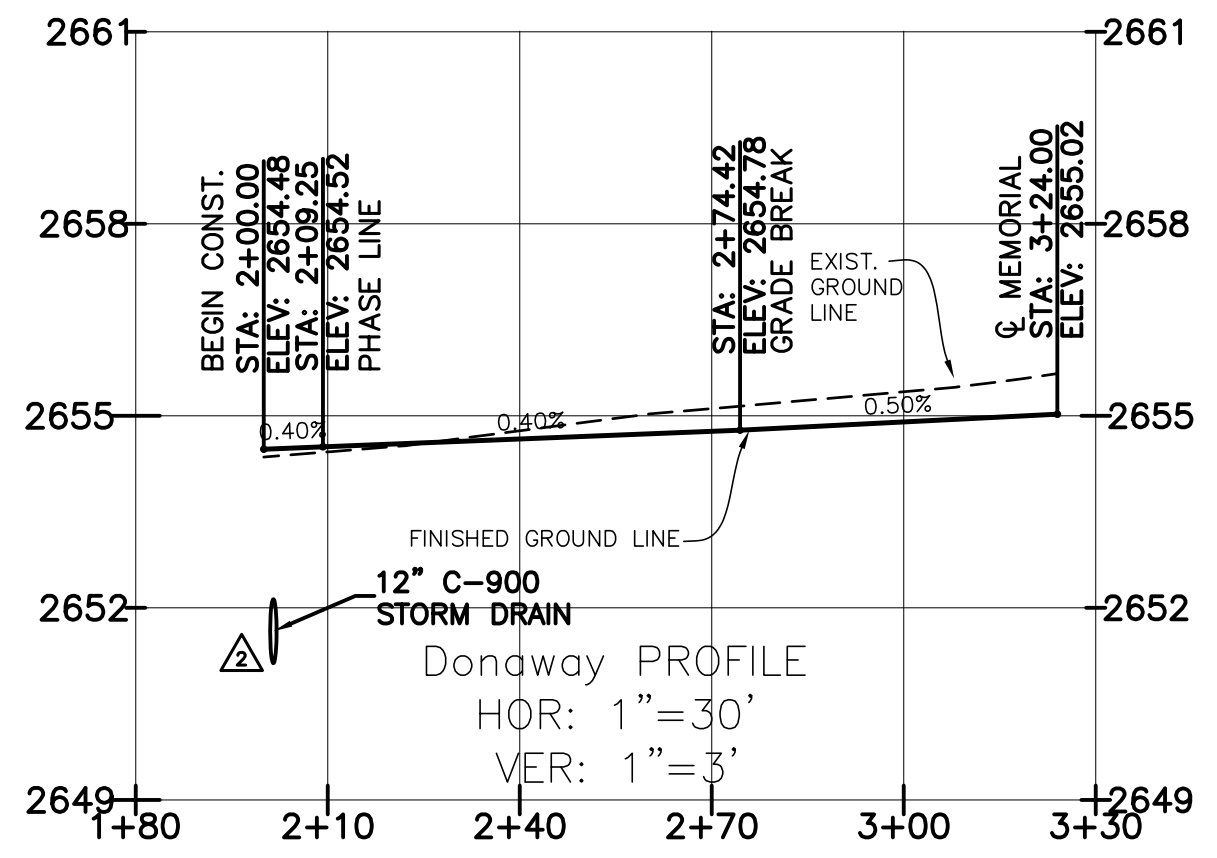
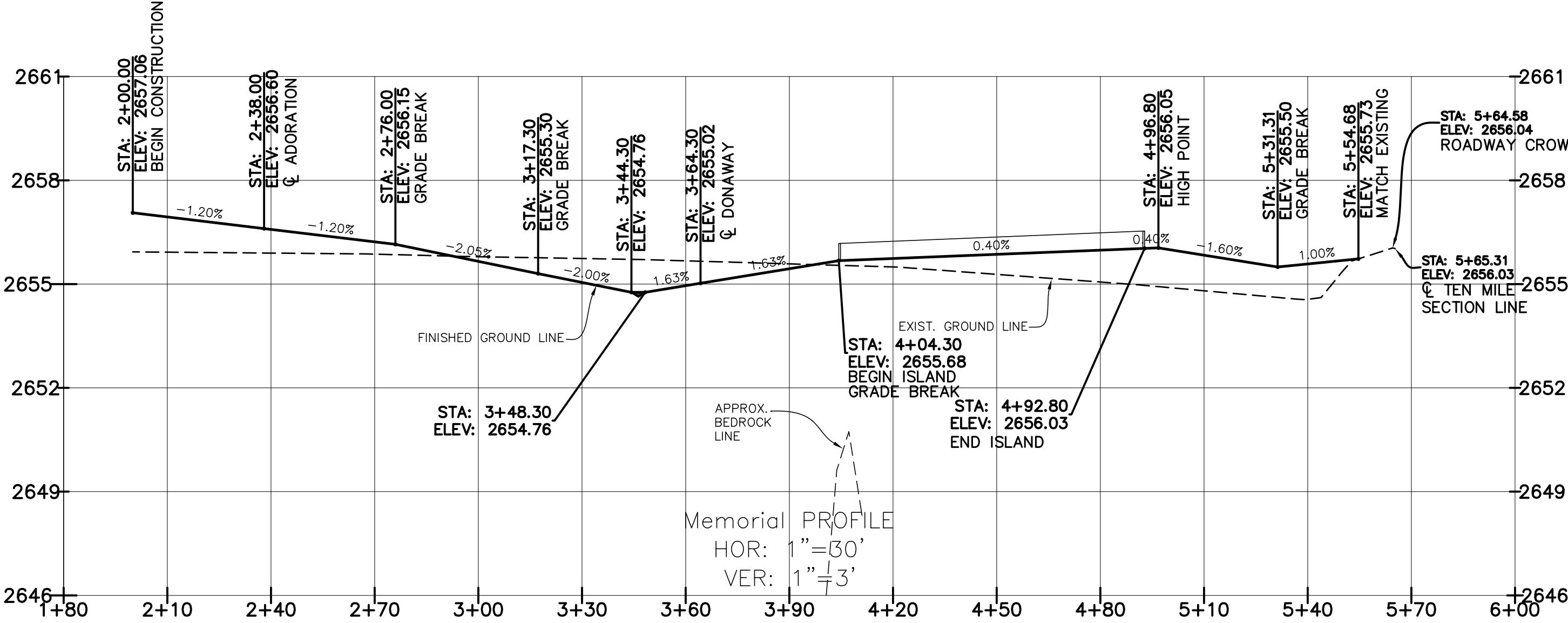
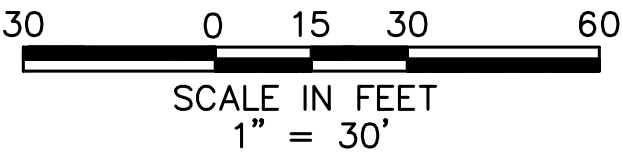
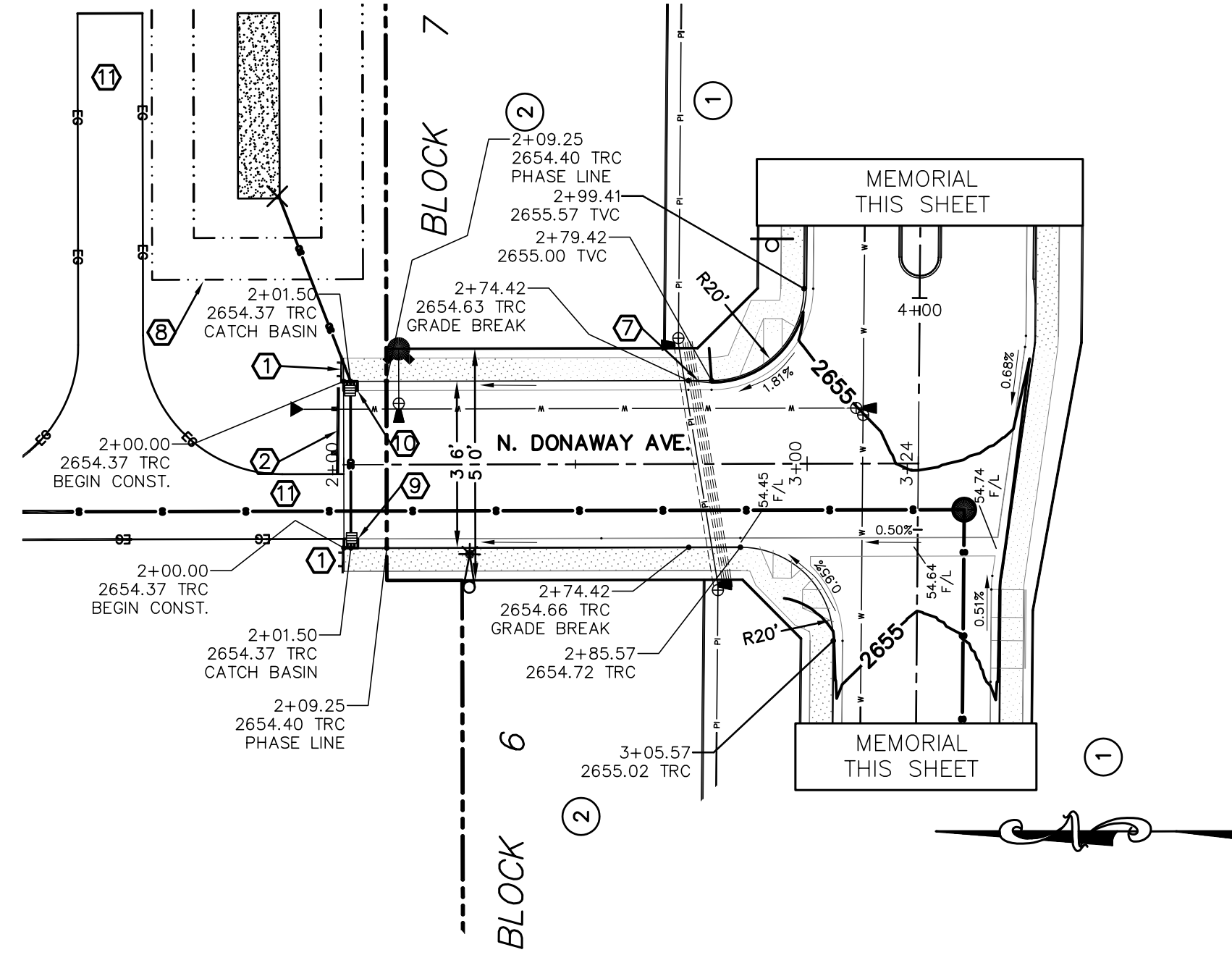
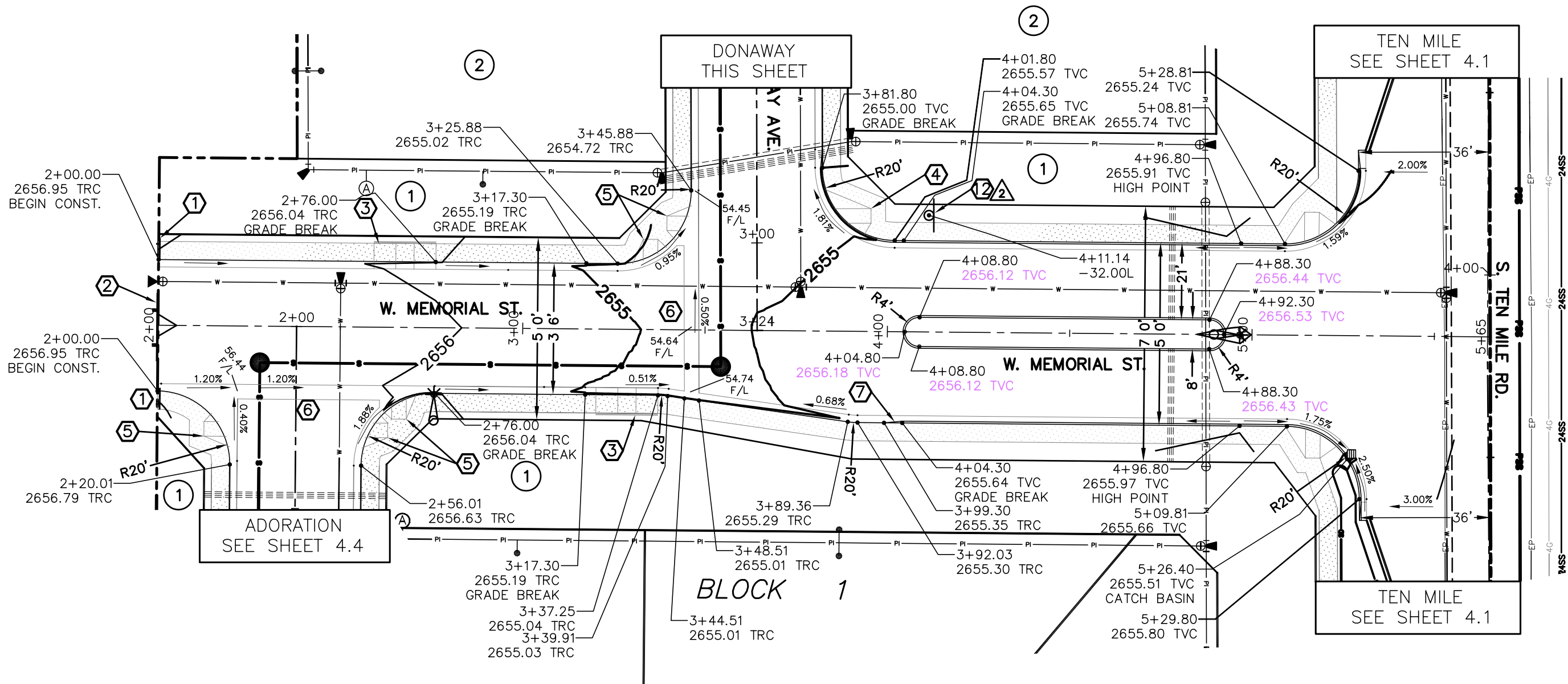
REVISED	
NO.	DATE DESCRIPTION
1	04-22-2016 CITY OF KUNA & ACHD
4242 N. BROOKSIDE LANE BOISE ID 83714 (208) 938-0013	

Bailey Engineering, Inc.
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DRAWN BY: KSC	CHECKED BY: DAVID A. BAILEY P.E.	PROJECT NO. C2014-025	DATE: 1-22-2016
STREET PLAN AND PROFILE			SHEET
MEMORY RANCH SUBDIVISION NO. 1			4.2
TRILOGY DEVELOPMENT, INC.			



- KEYNOTES**
1. INSTALL TYPE II SIDEWALK BARRICADE PER ACHD SD-1132A W/ THICKENED EDGE ALUMINUM WITH STRIPED DECALS W/ KICK PLATE. NOTE: WHERE SIDEWALK ENDS AT GRAVEL TURNAROUND, PROVIDE SMOOTH TRANSITION TO GRAVEL (WITHOUT BARRICADE.)
 2. INSTALL TYPE III TERMINUS BARRICADE & "THIS ROAD WILL BE EXTENDED IN THE FUTURE" SIGN PER ACHD SD-1132B W/ THICKENED EDGE ALUMINUM WITH STRIPED DECALS.
 3. CONSTRUCT MID-BLOCK PEDESTRIAN RAMP PER ISPC SD-712C.
 4. CONSTRUCT PEDESTRIAN RAMP PER ISPC SD-712C.
 5. CONSTRUCT PEDESTRIAN RAMP FOR ROLLED CURB. SEE DETAIL SHEET 4.8.
- NOTE: ADA STANDARDS REQUIRE THAT CROSS SLOPES SHALL NOT EXCEED 2% ON ANY PEDESTRIAN RAMP OR SIDEWALK. ACHD WILL NOT ALLOW ANY TOLERANCE FROM THIS REQUIREMENT.
- NOTE: ALL PEDESTRIAN RAMPS MUST HAVE DETECTABLE WARNING PER ISPC SD-712.
6. CONSTRUCT VALLEY GUTTER PER ACHD SD-708.
 7. CONSTRUCT 5' TRANSITION FROM ROLLED CURB TO VERTICAL CURB.
 8. CONSTRUCT TEMPORARY DRAINAGE POND - SEE DETAIL SHEET 4.8.
 9. CB TEMP #2 - 2654.77 INV. 32 LF 12" C-900 0.03% TO CB TEMP #1 W/1" SUMP PER ACHD SD-604A TYPE IV. (QP=1.15cfs, QP=0.82cfs)
 10. CB TEMP #1 - 2654.77 INV. 42 LF 12" SDR-35 0.02% TO TEMP DRAINAGE POND W/1" SUMP PER ACHD SD-604A TYPE IV. INV. 2654.94 (QP=0.32cfs, QP=0.23cfs)
 11. CONSTRUCT 14' WIDE ACHD ACCESS ROAD - SEE SECTION & PLAN VIEW DETAILS SHEET 4.8.
 12. INSTALL SPEED LIMIT SIGN ("SPEED LIMIT 20") PER MUTCD R-2 & ACHD SUPPLEMENTAL TS-1114.



RECORD DRAWING
05-22-2017

Plans Are Accepted For Public Street Construction

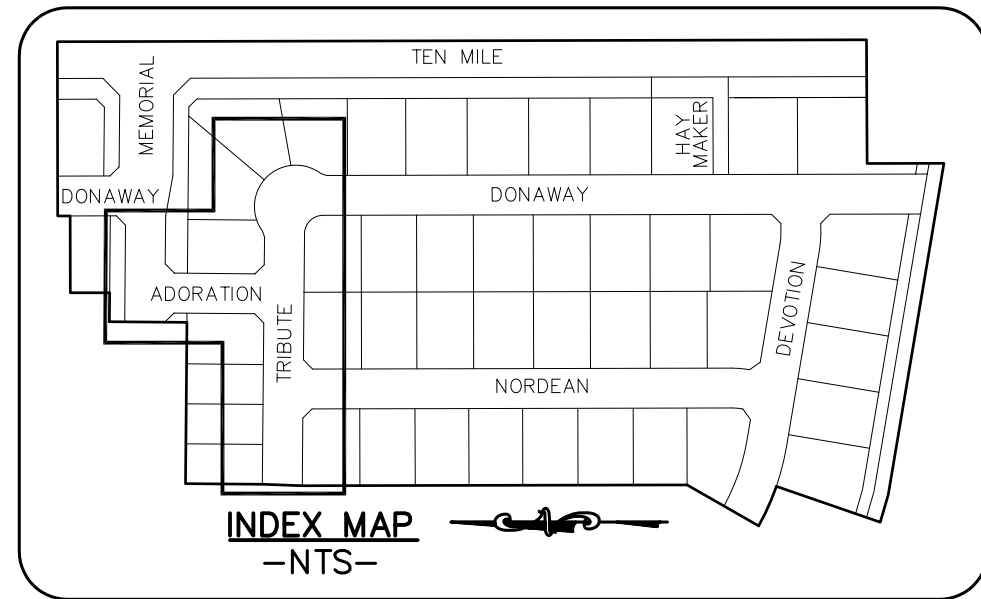
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REVISED	NO.	DATE	DESCRIPTION
1	04-22-2016	CITY OF KUNA & ACHD	
2	04-22-2016	CITY OF KUNA & ACHD	
3	04-22-2016	CITY OF KUNA & ACHD	

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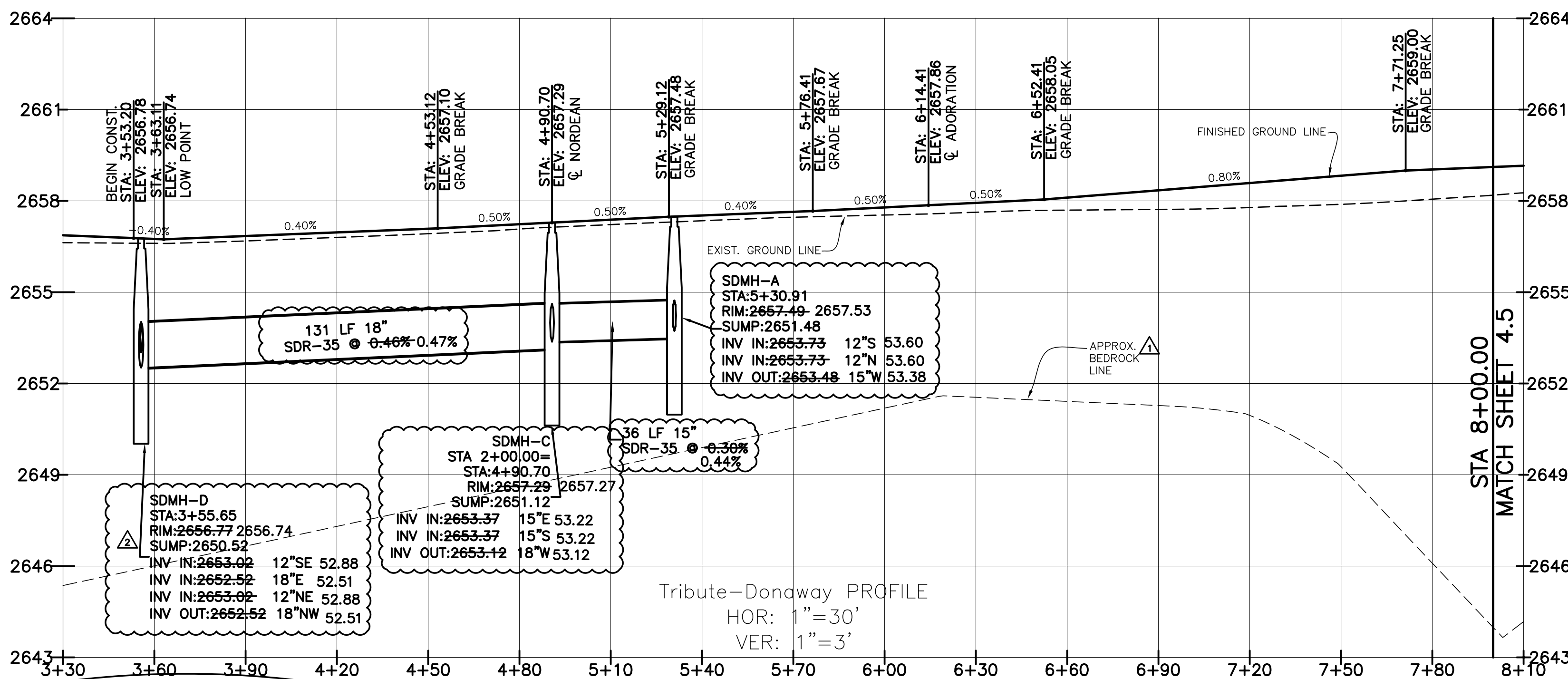
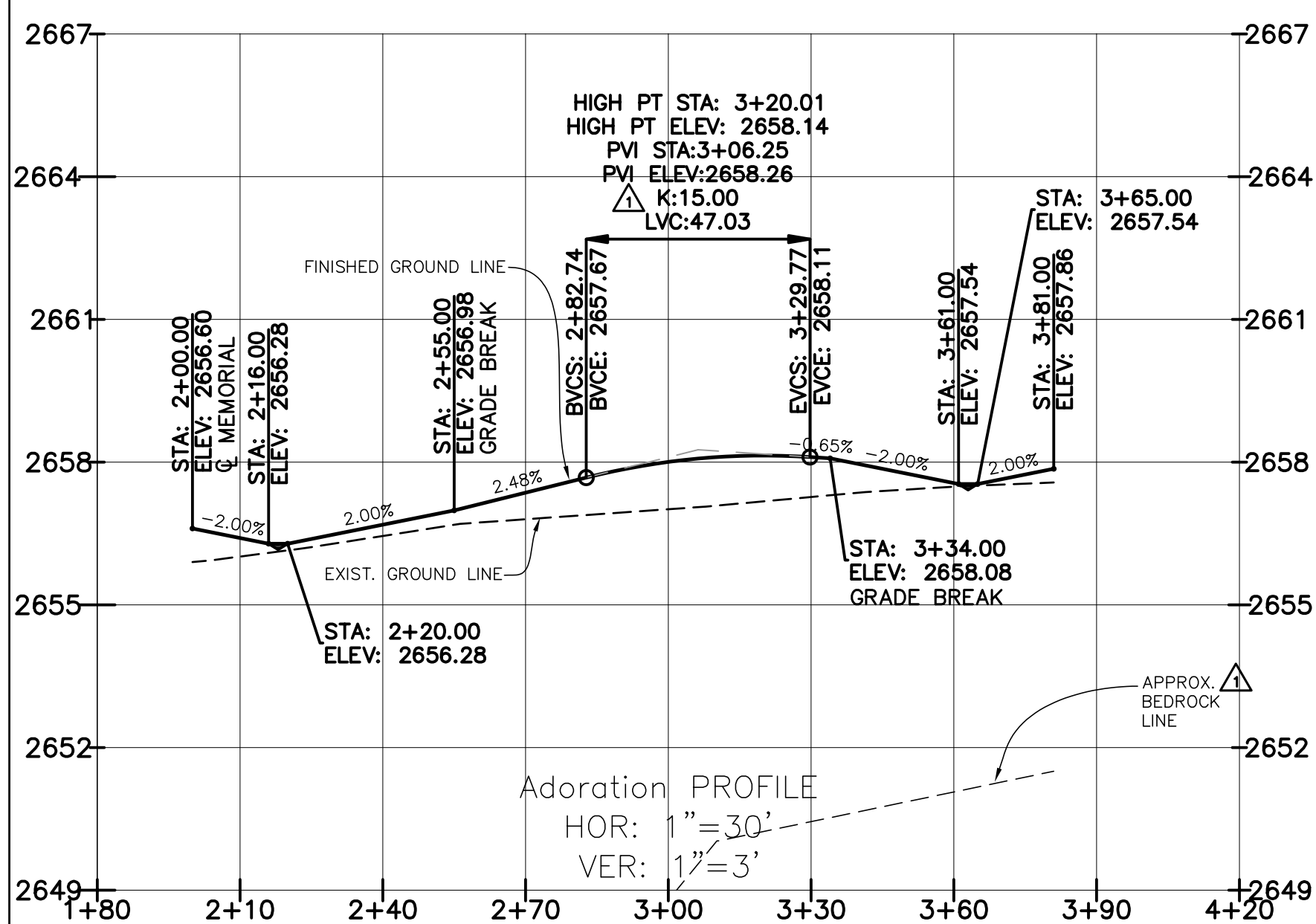
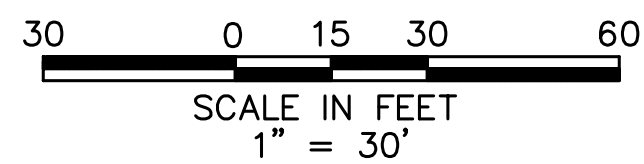
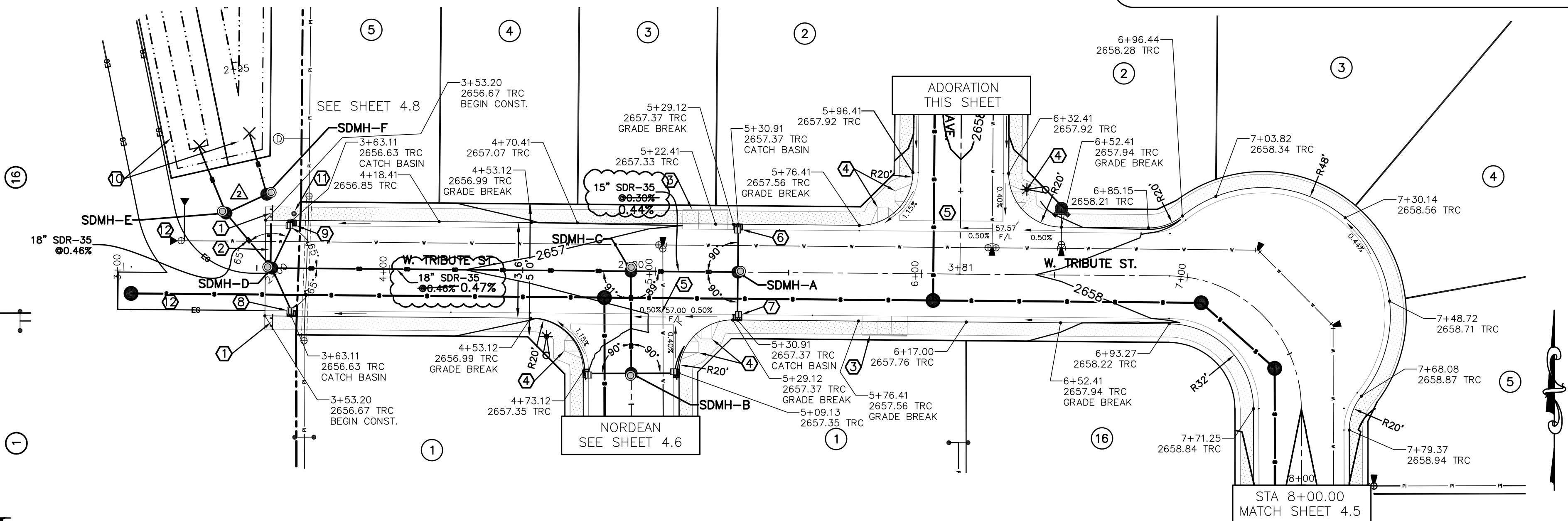
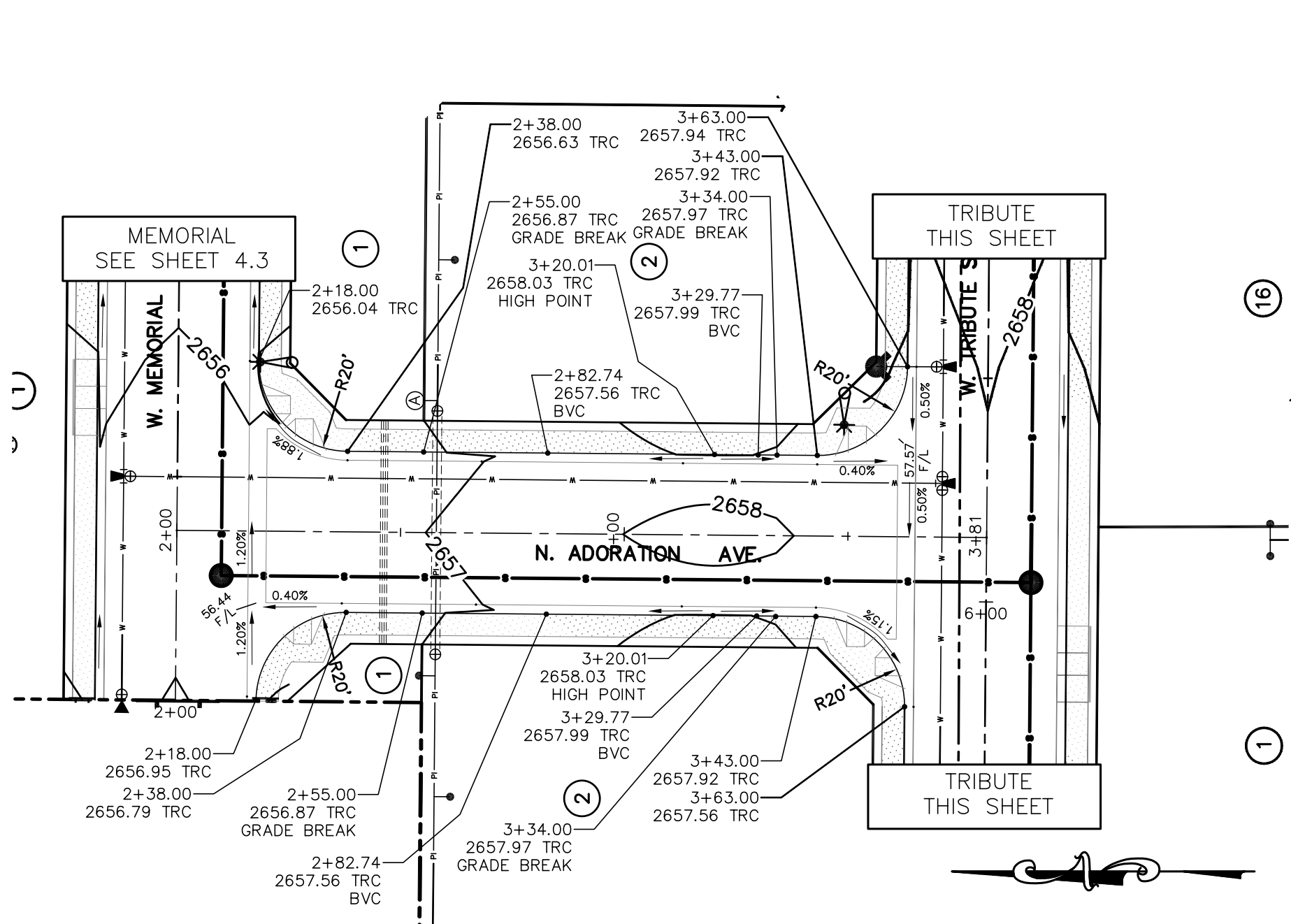
DRAWN BY: KSC	CHECKED BY: DAVID A. BAILEY P.E.	PROJECT NO. C2014-025	DATE: 1-22-2016
STREET PLAN AND PROFILE			
MEMORY RANCH SUBDIVISION NO. 1			
TRILOGY DEVELOPMENT, INC.			
SHEET 4.3			



KEYNOTES

- INSTALL TYPE II SIDEWALK BARRICADE PER ACHD SD-1132A W/ THICKENED EDGE ALUMINUM WITH STRIPED DECALS W/ KICK PLATE. NOTE: WHERE SIDEWALK ENDS AT GRAVEL TURNAROUND, PROVIDE SMOOTH TRANSITION TO GRAVEL (WITHOUT BARRICADE.)
 - INSTALL TYPE III TERMINUS BARRICADE & "THIS ROAD WILL BE EXTENDED IN THE FUTURE" SIGN PER ACHD SD-1132B W/ THICKENED EDGE ALUMINUM WITH STRIPED DECALS.
 - CONSTRUCT MID-BLOCK PEDESTRIAN RAMP PER ISPMC SD-712G.
 - CONSTRUCT PEDESTRIAN RAMP FOR ROLLED CURB. SEE DETAIL SHEET 4.8.
- NOTE: ADA STANDARDS REQUIRE THAT CROSS SLOPES SHALL NOT EXCEED 2% ON ANY PEDESTRIAN RAMP OR SIDEWALK. ACHD WILL NOT ALLOW ANY TOLERANCE FROM THIS REQUIREMENT.
- NOTE: ALL PEDESTRIAN RAMPS MUST HAVE DETECTABLE WARNING PER ISPMC SD-712.
- CONSTRUCT VALLEY GUTTER PER ACHD SD-708.

- CB #1 - 2653.72 INV. 14 LF 12" C-900 SDR-35 SDR-35 INV. 1.53cfs
 - CB #2 - 2653.70 INV. 14 LF 12" SDR-35 SDR-35 INV. 1.06cfs
 - CB #3 - 2652.92 INV. 15 LF 12" SDR-35 SDR-35 INV. 0.27cfs
 - CB #4 - 2652.92 INV. 15 LF 12" SDR-35 SDR-35 INV. 0.27cfs
 - CB #5 - 2653.03 INV. 15 LF 12" C-900 SDR-35 SDR-35 INV. 0.43cfs
 - CB #6 - 2653.03 INV. 15 LF 12" C-900 SDR-35 SDR-35 INV. 0.43cfs
- POND #1 (PER ACHD BMP 10). SEE DETAIL SHEET 4.8.
- CONSTRUCT MONITORING WELL PER ACHD DETAIL 6. SEE DETAIL SHEET 4.8.
- CONSTRUCT 14' WIDE ACHD ACCESS ROAD - SEE DETAIL SHEET 4.8.



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BY: _____ DATE: _____

ADA COUNTY HIGHWAY DISTRICT



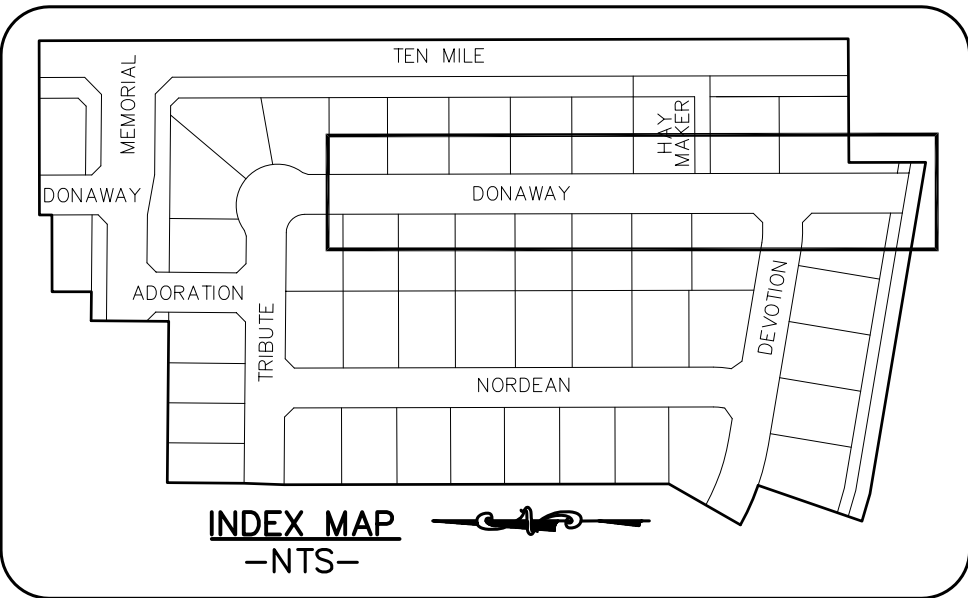
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05-22-2017

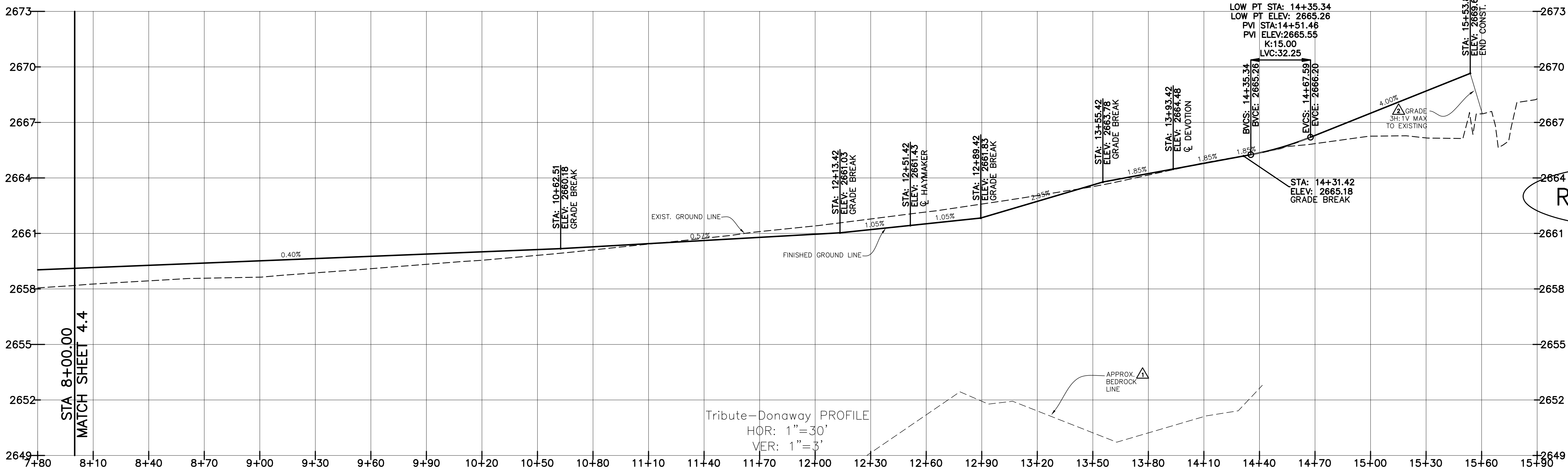
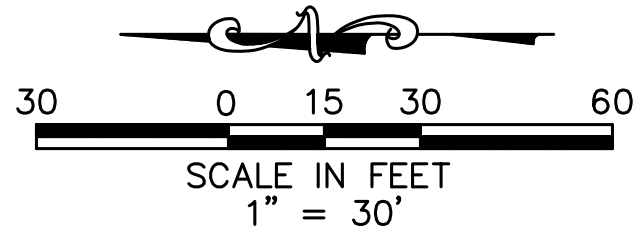
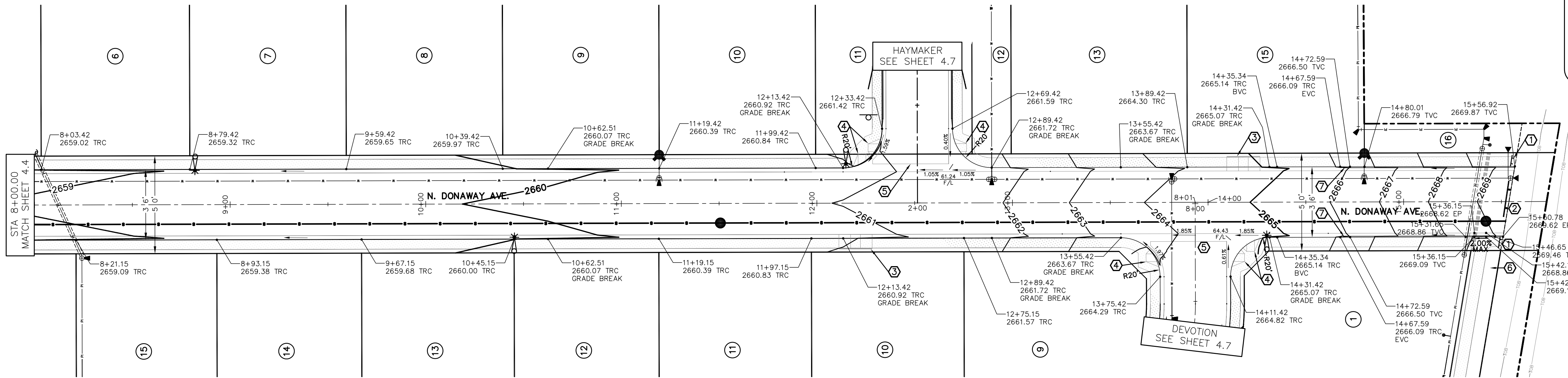
NO.	DATE	DESCRIPTION
03-02-2016	CITY OF KUNA & ACHD	
04-22-2016	CITY OF KUNA & ACHD	
4242 N. BROOKSIDE LANE BOISE ID 83714 (208) 938-0013		

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DRAWN BY: KSC	CHECKED BY: DAVID A. BAILEY P.E.	PROJECT NO. C2014-025	DATE: 1-22-2016
STREET PLAN AND PROFILE			
MEMORY RANCH SUBDIVISION NO. 1			
TRILOGY DEVELOPMENT, INC.			
SHEET 4.4			



- KEYNOTES**
- 1 INSTALL TYPE II SIDEWALK BARRICADE PER ACHD SD-1132A W/ THICKENED EDGE ALUMINUM WITH STRIPED DECALS W/ KICK PLATE. NOTE: WHERE SIDEWALK ENDS AT GRAVEL TURNAROUND, PROVIDE SMOOTH TRANSITION TO GRAVEL (WITHOUT BARRICADE.)
 - 2 INSTALL TYPE III TERMINUS BARRICADE & "THIS ROAD WILL BE EXTENDED IN THE FUTURE" SIGN PER ACHD SD-1132B W/ THICKENED EDGE ALUMINUM WITH STRIPED DECALS.
 - 3 CONSTRUCT MID-BLOCK PEDESTRIAN RAMP PER ISPCW SD-712.
 - 4 CONSTRUCT PEDESTRIAN RAMP FOR ROLLED CURB. SEE DETAIL SHEET 4.8.
- NOTE: ADA STANDARDS REQUIRE THAT CROSS SLOPES SHALL NOT EXCEED 2% ON ANY PEDESTRIAN RAMP OR SIDEWALK. ACHD WILL NOT ALLOW ANY TOLERANCE FROM THIS REQUIREMENT.
- NOTE: ALL PEDESTRIAN RAMPS MUST HAVE DETECTABLE WARNING PER ISPCW SD-712.
- 5 CONSTRUCT VALLEY GUTTER PER ACHD SD-708.
 - 6 CONSTRUCT 5' WIDE MEANDERING PATHWAY PER ACHD SD-709. VERIFY CONSTRUCTION W/ LANDSCAPE PLAN.
 - 7 CONSTRUCT 5' TRANSITION FROM ROLLED CURB TO VERTICAL CURB.



RECORD DRAWING
05-22-2017

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ADA COUNTY HIGHWAY DISTRICT



REVISED		
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03-02-2016	CITY OF KUNA & ACHD	
04-22-2016	CITY OF KUNA & ACHD	
4242 N. BROOKSIDE LANE BOISE ID 83714 (208) 938-0013		

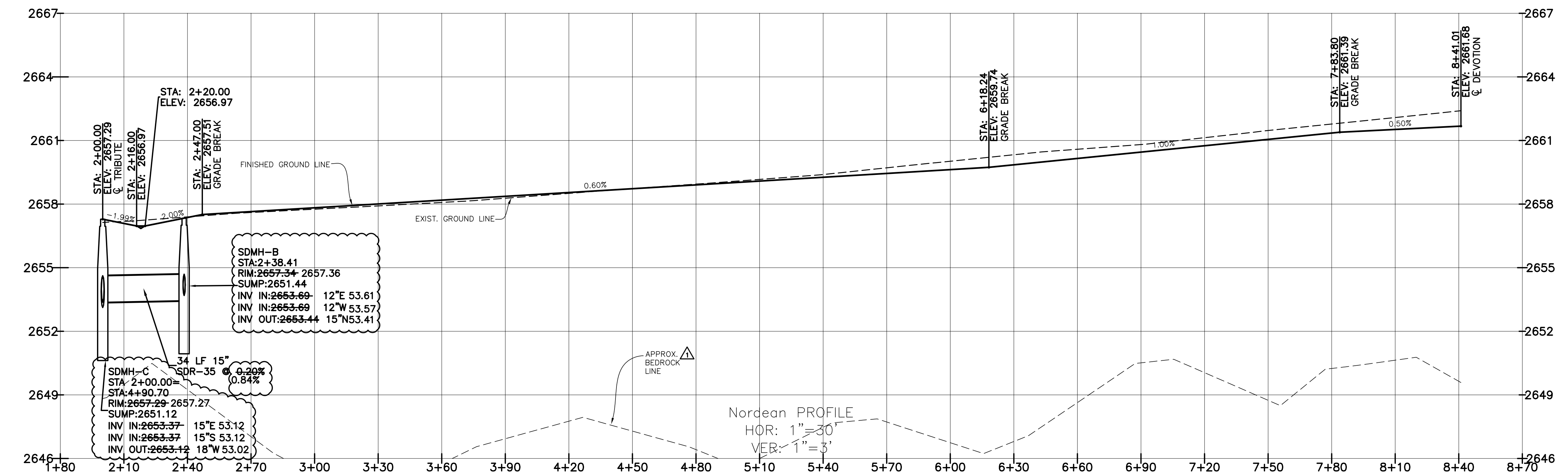
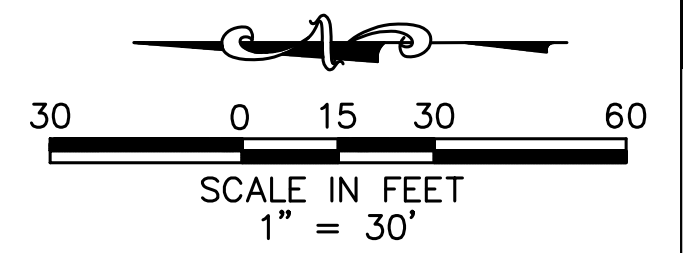
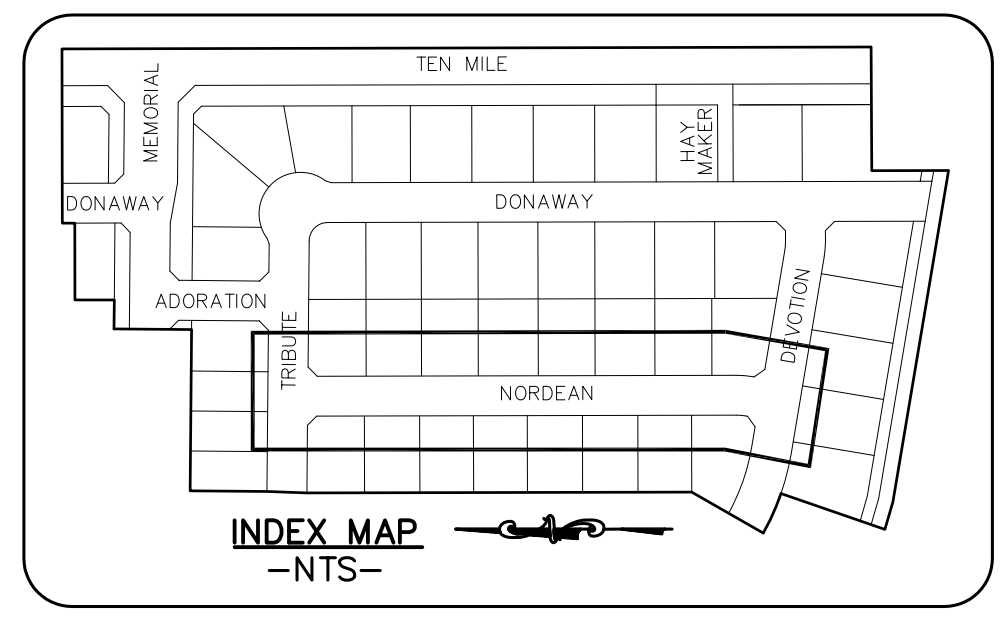
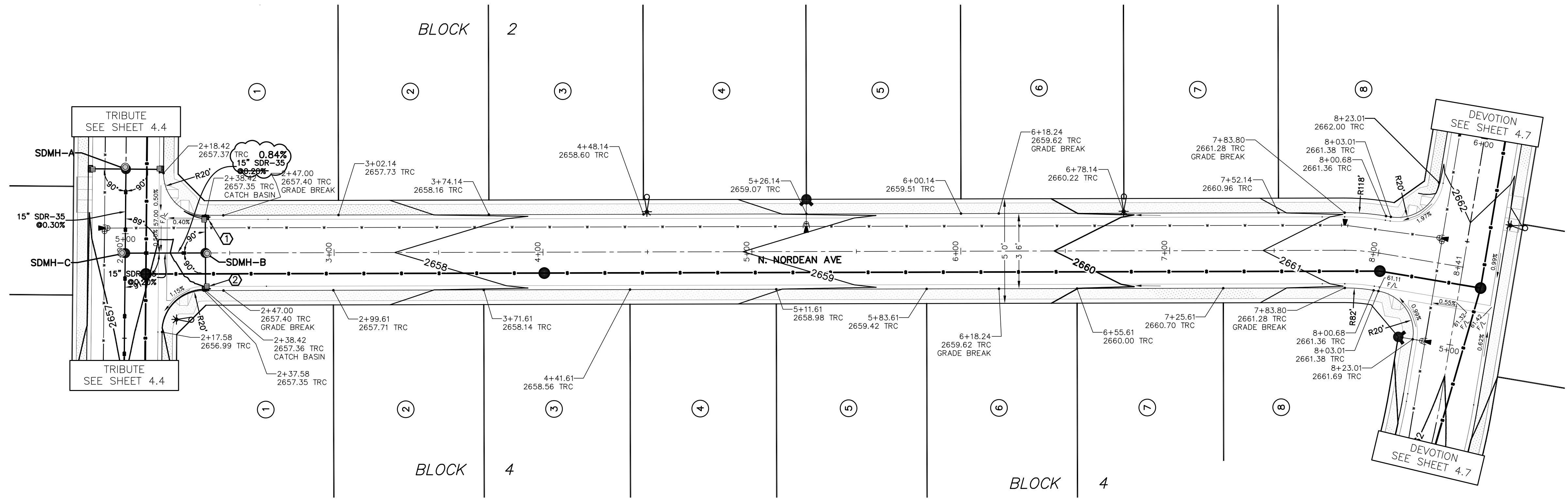
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STREET PLAN AND PROFILE			
MEMORY RANCH SUBDIVISION NO. 1			
TRILOGY DEVELOPMENT, INC.			
			SHEET 4.5

KEYNOTES

① CB #3 - 2653.78 INV. 14 LF 12" C-900 1.21% TO
SDMH-B W/1' SUMP PER ACHD SD-604A TYPE IV.
(QP=1.44cfs, QP=1.03cfs)

② CB #4 - 2653.65 INV. 14 LF 12" SDR-35 0.57% TO
SDMH-B W/1' SUMP PER ACHD SD-604A TYPE IV.
(QP=1.53cfs, QP=1.10cfs)



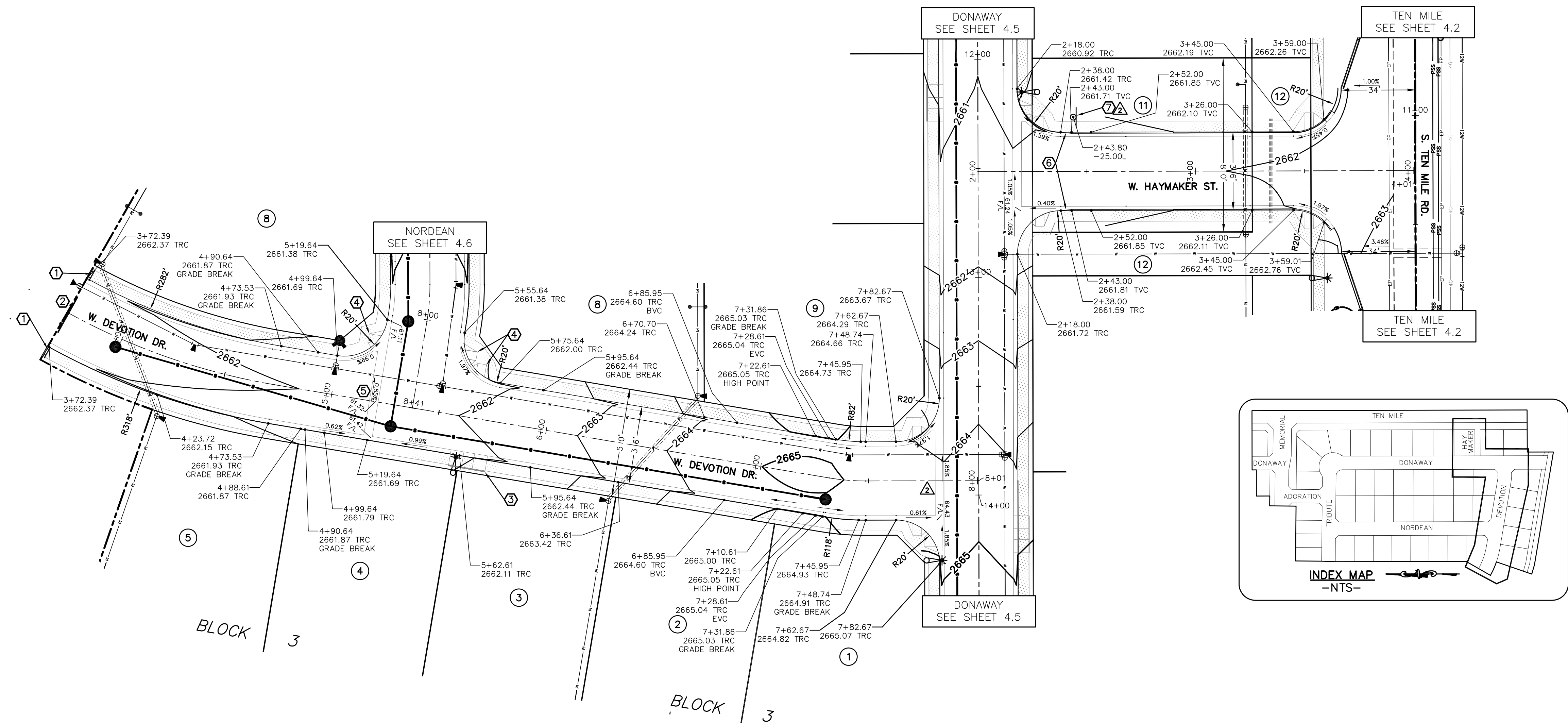
RECORD DRAWING
05-22-2017

Plans Are Accepted For Public Street Construction

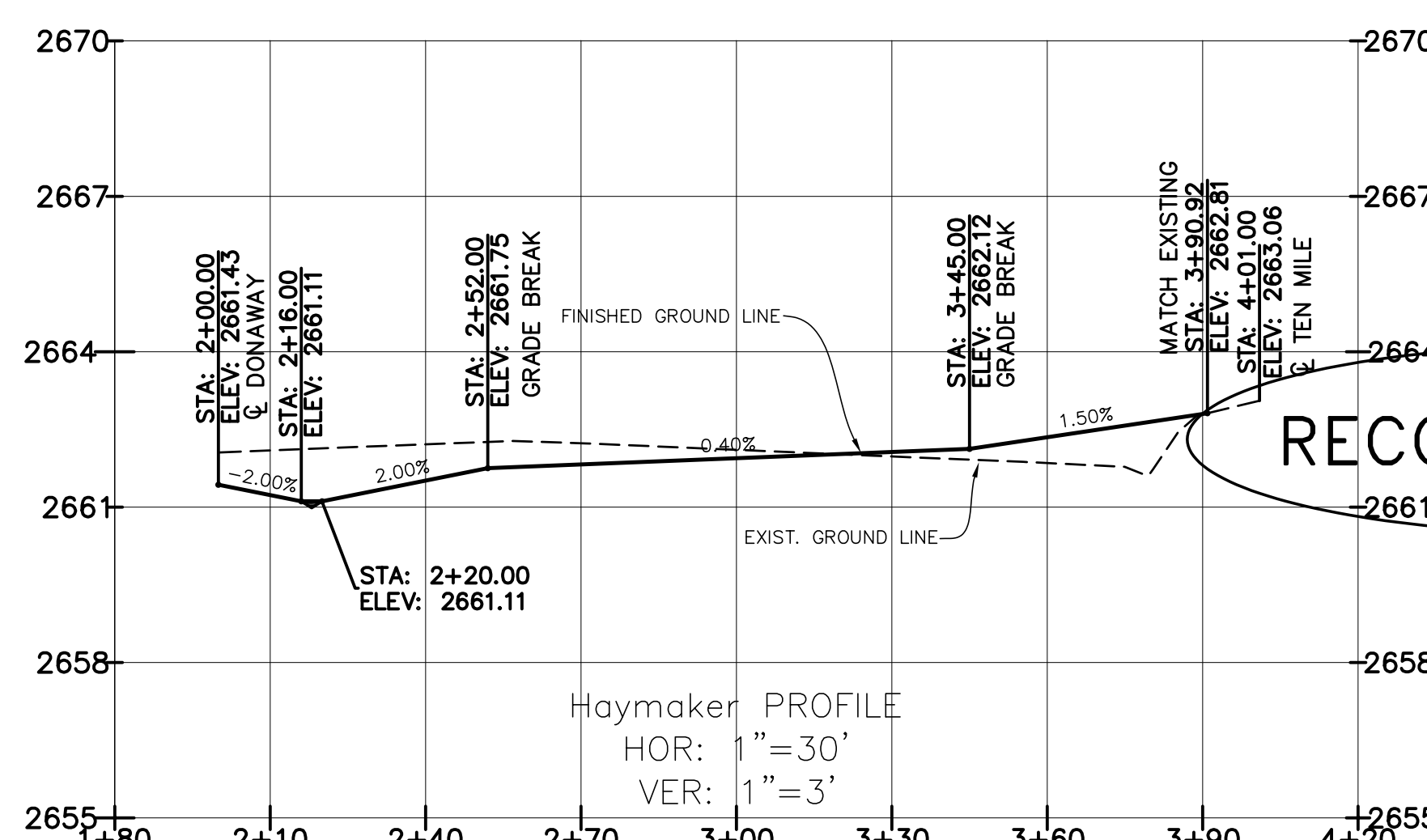
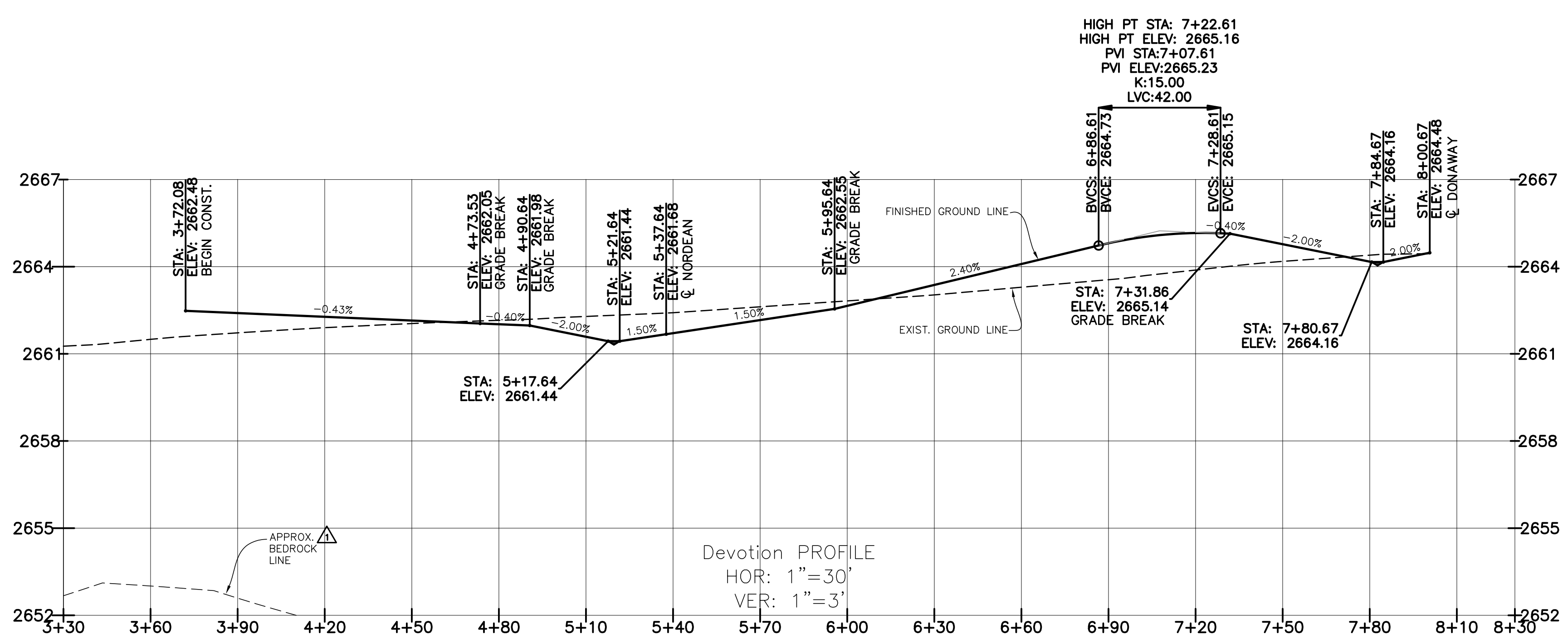
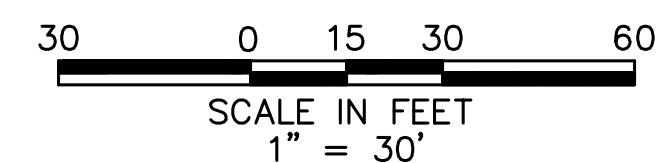
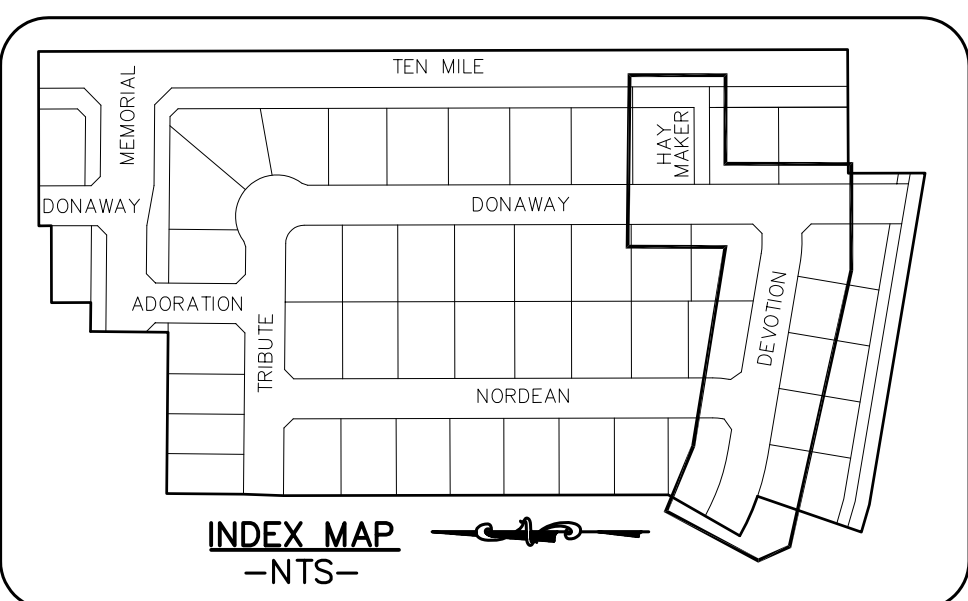
By stamping and signing the improvement plans, the Registered Engineer ensures the District that the plans conform to all District policies and standards. Variances or waivers must be specifically and previously approved by the District in writing. Acceptance of the improvement plans by the District does not relieve the Registered Engineer of these responsibilities.

BY: _____ DATE: _____
ADA COUNTY HIGHWAY DISTRICT





- KEYNOTES**
- ① INSTALL TYPE II SIDEWALK BARRICADE PER ACHD SD-1132A W/ THICKENED EDGE ALUMINUM WITH STRIPED DECALS W/ KICK PLATE. NOTE: WHERE SIDEWALK ENDS AT GRAVEL TURNAROUND, PROVIDE SMOOTH TRANSITION TO GRAVEL (WITHOUT BARRICADE.)
 - ② INSTALL TYPE III TERMINUS BARRICADE & "THIS ROAD WILL BE EXTENDED IN THE FUTURE" SIGN PER ACHD SD-1132B W/ THICKENED EDGE ALUMINUM WITH STRIPED DECALS.
 - ③ CONSTRUCT MID-BLOCK PEDESTRIAN RAMP PER ISPC SD-712G.
 - ④ CONSTRUCT PEDESTRIAN RAMP FOR ROLLED CURB. SEE DETAIL SHEET 4.8.
- NOTE: ADA STANDARDS REQUIRE THAT CROSS SLOPES SHALL NOT EXCEED 2% ON ANY PEDESTRIAN RAMP OR SIDEWALK. ACHD WILL NOT ALLOW ANY TOLERANCE FROM THIS REQUIREMENT.
- NOTE: ALL PEDESTRIAN RAMPS MUST HAVE DETECTABLE WARNING PER ISPC SD-712.
- ⑤ CONSTRUCT VALLEY GUTTER PER ACHD SD-708.
 - ⑥ CONSTRUCT 5' TRANSITION FROM ROLLED CURB TO VERTICAL CURB.
 - ⑦ INSTALL SPEED LIMIT SIGN ("SPEED LIMIT 20") PER MUTCD R-2 & ACHD SUPPLEMENTAL TS-1114.



Plans Are Accepted For Public Street Construction

By stamping and signing the improvement plans, the Registered Engineer ensures the District that the plans conform to all District policies and standards. Variances or waivers must be specifically and previously approved by the District in writing. Acceptance of the improvement plans by the District does not relieve the Registered Engineer of these responsibilities.

BY: _____ DATE: _____
ADA COUNTY HIGHWAY DISTRICT

RECORD DRAWING

05-22-2017

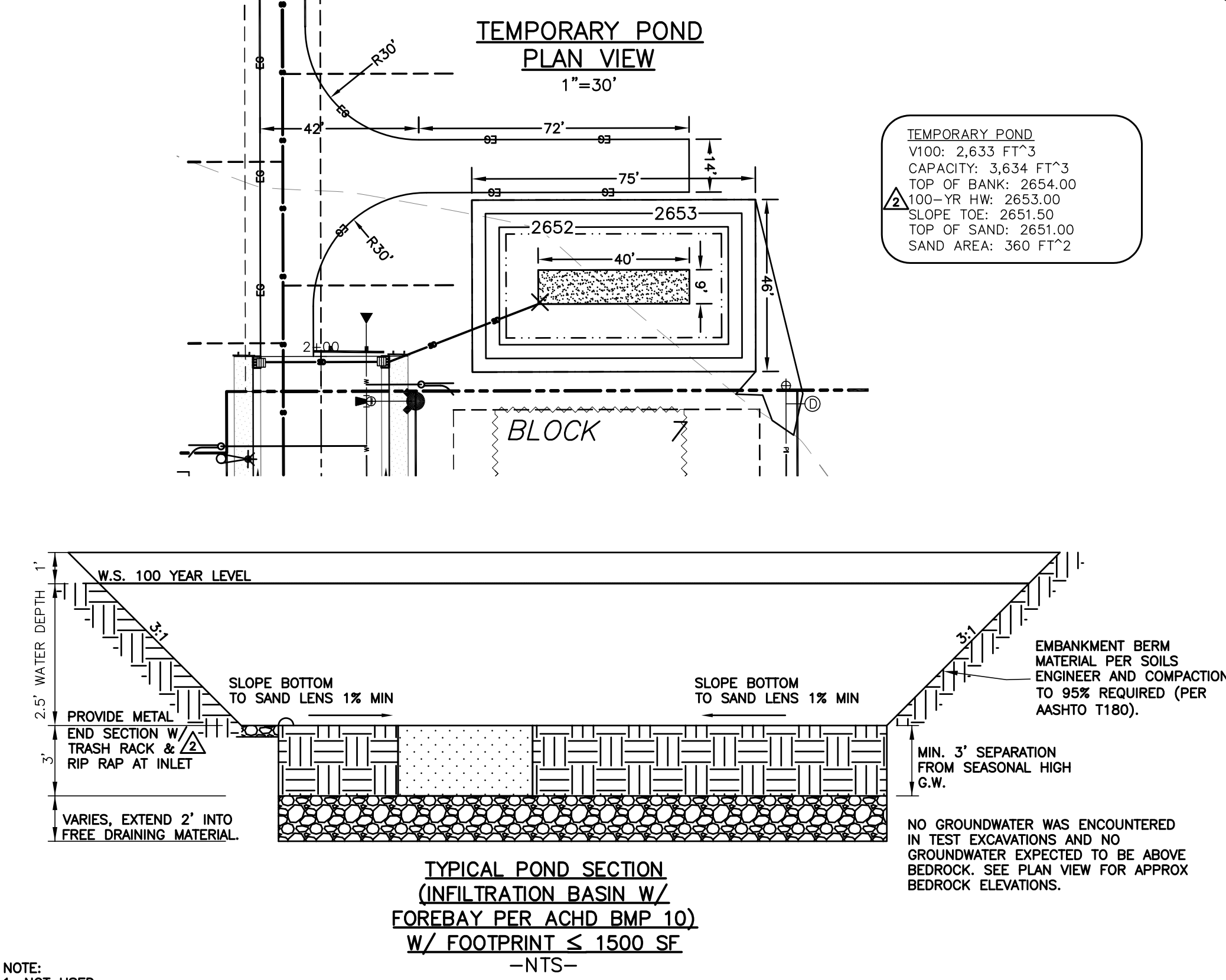
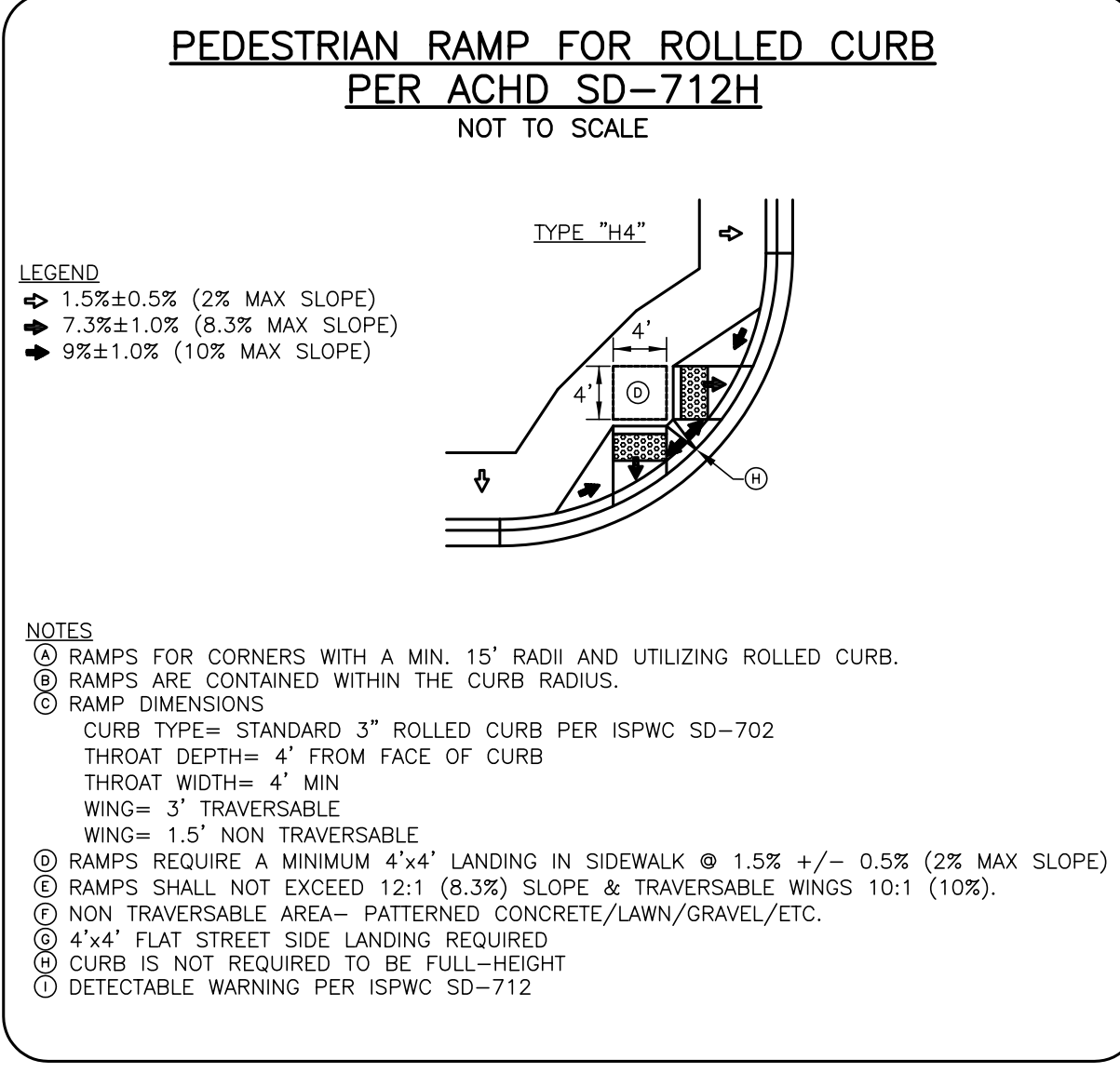
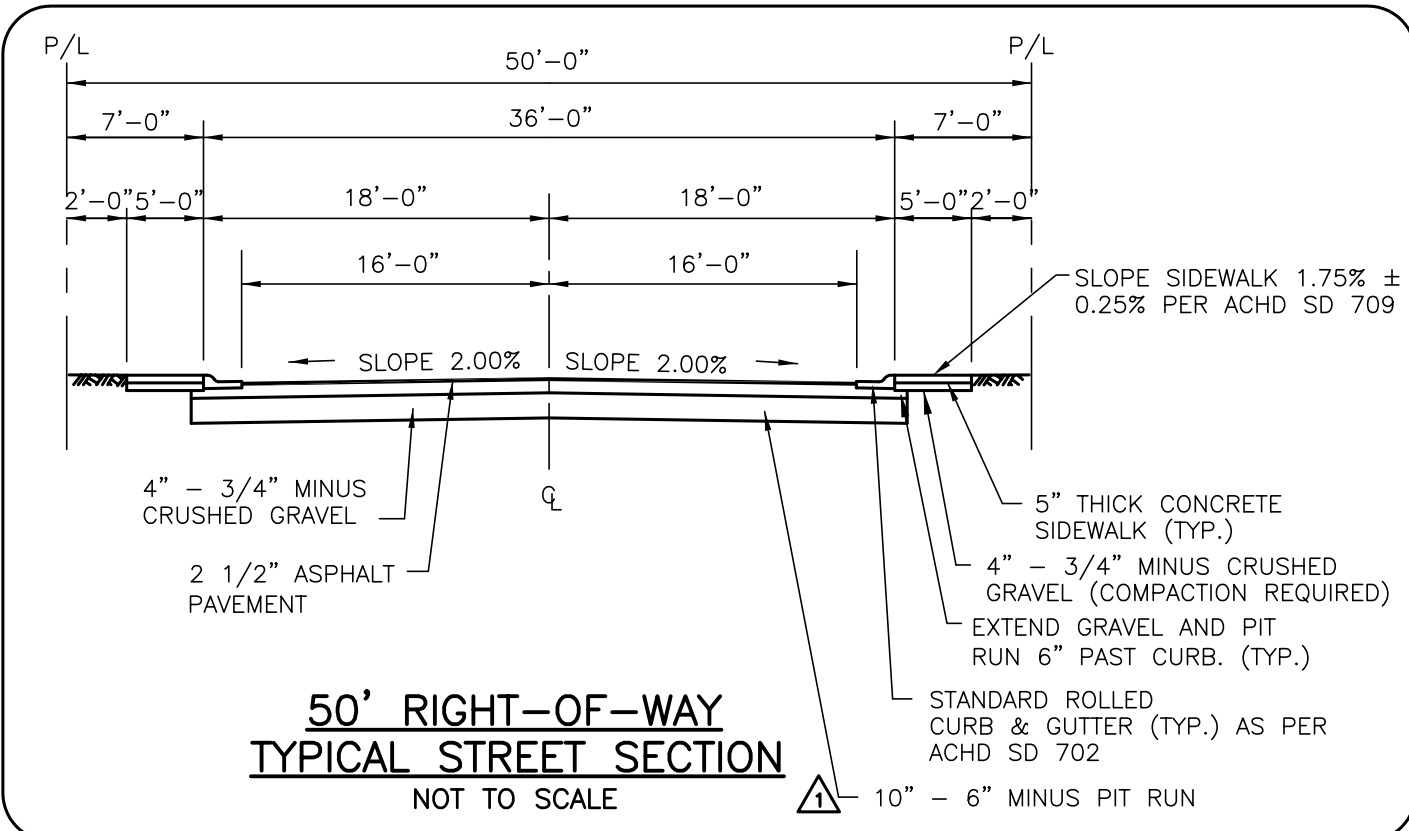
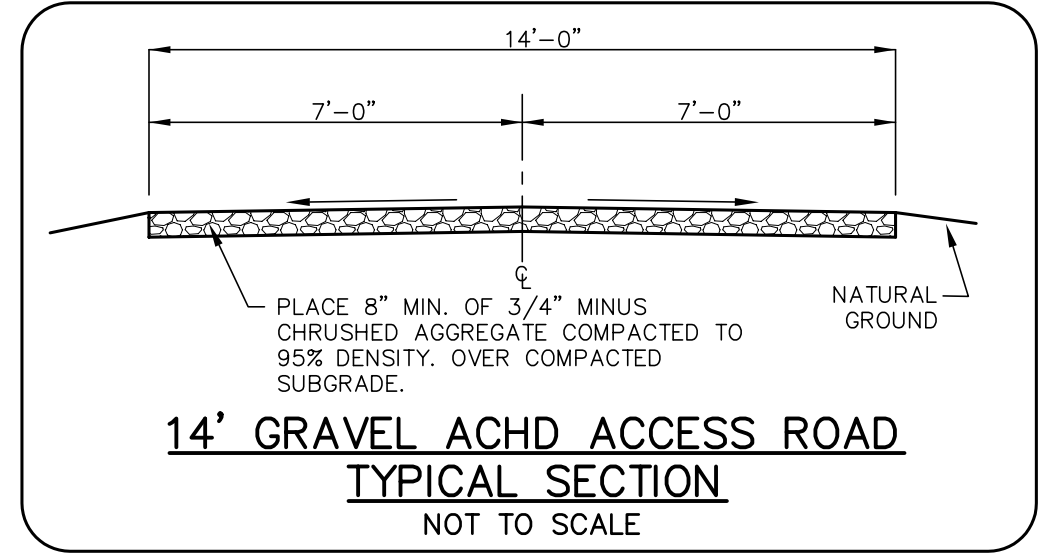


REVISED	NO.	DATE	DESCRIPTION
①	03-02-2016	CITY OF KUNA & ACHD	
②	04-22-2016	CITY OF KUNA & ACHD	
	4242 N. BROOKSIDE LANE BOISE ID 83714	(208) 938-0013	

Bailey Engineering, Inc.
CIVIL ENGINEERING | PLANNING | CADD

DRAWN BY: KSC	CHECKED BY: DAVID A. BAILEY P.E.	PROJECT NO. C2014-025	DATE: 1-22-2016
STREET PLAN AND PROFILE			
MEMORY RANCH SUBDIVISION NO. 1			
TRILOGY DEVELOPMENT, INC.			

SHEET 4.7



RECORD DRAWING

05-22-2017

REISSUE ENTIRE SHEET

11-10-2016

Plans Are Accepted For Public Street Construction

By stamping and signing the improvement plans, the Registered Engineer ensures the District that the plans conform to all District policies and standards. Variances or waivers must be specifically and previously approved by the District in writing. Acceptance of the improvement plans by the District does not relieve the Registered Engineer of these responsibilities.

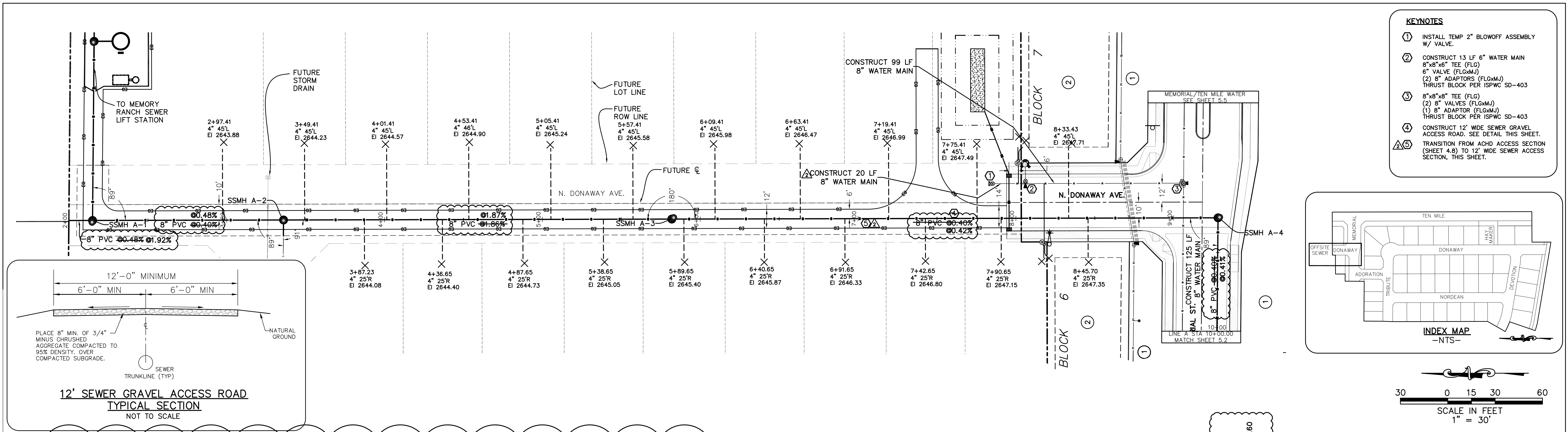
BY _____ DATE: _____
ADA COUNTY HIGHWAY DISTRICT



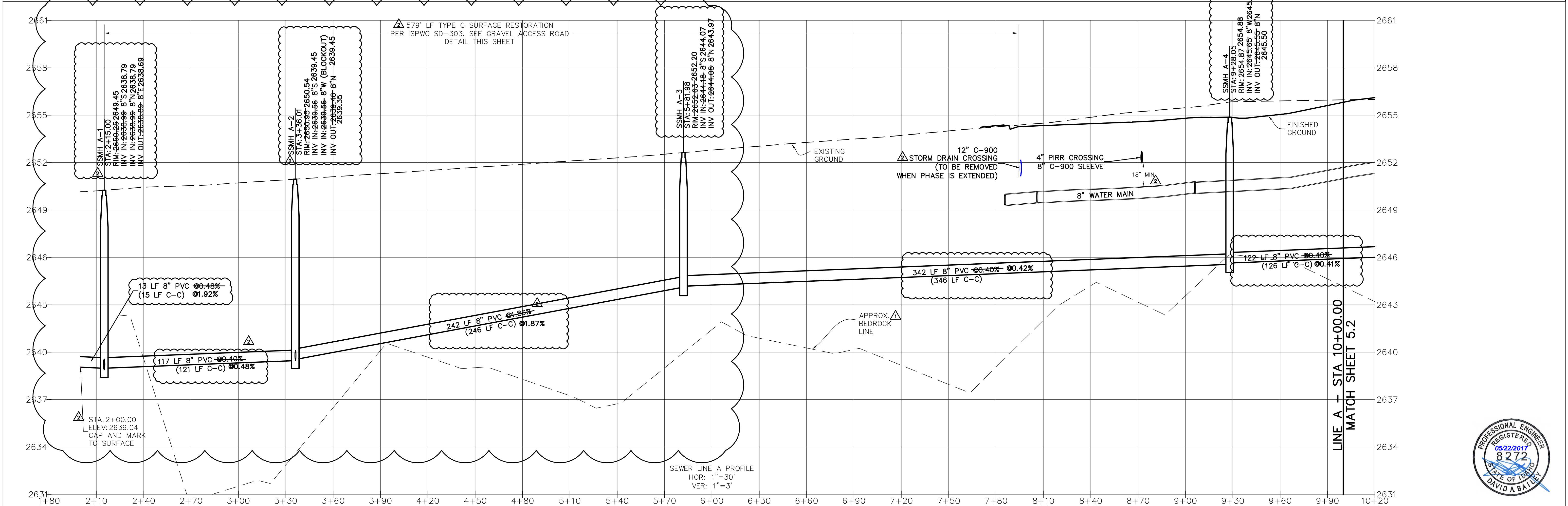
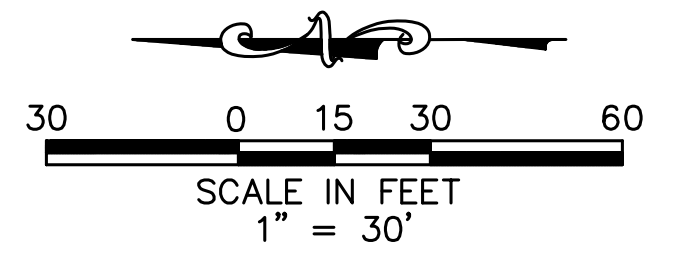
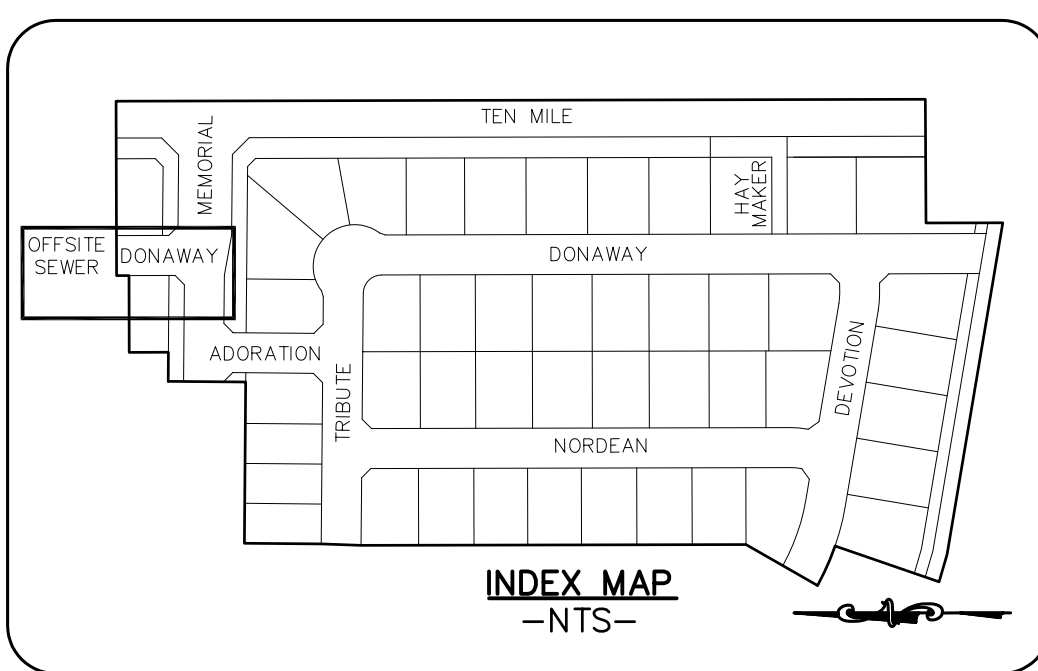
REVISED	
NO.	DATE DESCRIPTION
03-02-2016	CITY OF KUNA & ACHD
04-22-2016	CITY OF KUNA & ACHD
05-16-2016	ACHD
4242 N. BROOKSIDE LANE BOISE ID 83714 (208) 938-0013	

Bailey Engineering, Inc.
CIVIL ENGINEERING | PLANNING | CADD

DRAWN BY: KSC	CHECKED BY: DAVID A. BAILEY P.E.	PROJECT NO. C2014-025	DATE: 1-22-2016
STREET AND DRAINAGE DETAILS			
MEMORY RANCH SUBDIVISION NO. 1			SHEET 4.8
TRILOGY DEVELOPMENT, INC.			



- KEYNOTES**
- 1. INSTALL TEMP 2" BLOWOFF ASSEMBLY W/ VALVE.
 - 2. CONSTRUCT 13 LF 8" WATER MAIN 8"x8"x6" TEE (FLG) 6" VALVE (FLG&MJ) THRUST BLOCK PER ISPCW SD-403
 - 3. 8"x8"x8" TEE (FLG) (2) 8" VALVES (FLG&MJ) (1) 8" ADAPTOR (FLG&MJ) THRUST BLOCK PER ISPCW SD-403
 - 4. CONSTRUCT 12' WIDE SEWER GRAVEL ACCESS ROAD. SEE DETAIL THIS SHEET.
 - 5. TRANSITION FROM ACHD ACCESS SECTION (SHEET 4.8) TO 12' WIDE SEWER ACCESS SECTION, THIS SHEET.



REISSUE ENTIRE SHEET
7/27/2016

NOTE:
-THE SLOPE AND LENGTH OF PIPE IS CALCULATED FROM INSIDE FACE OF MANHOLE TO INSIDE FACE OF MANHOLE.

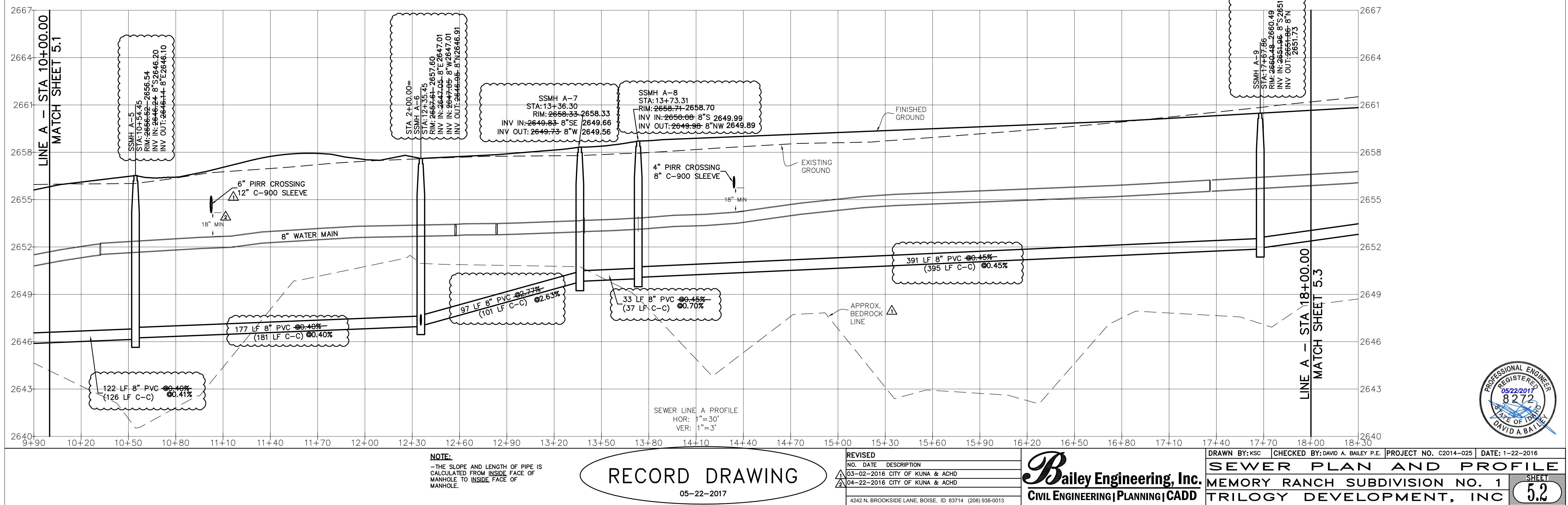
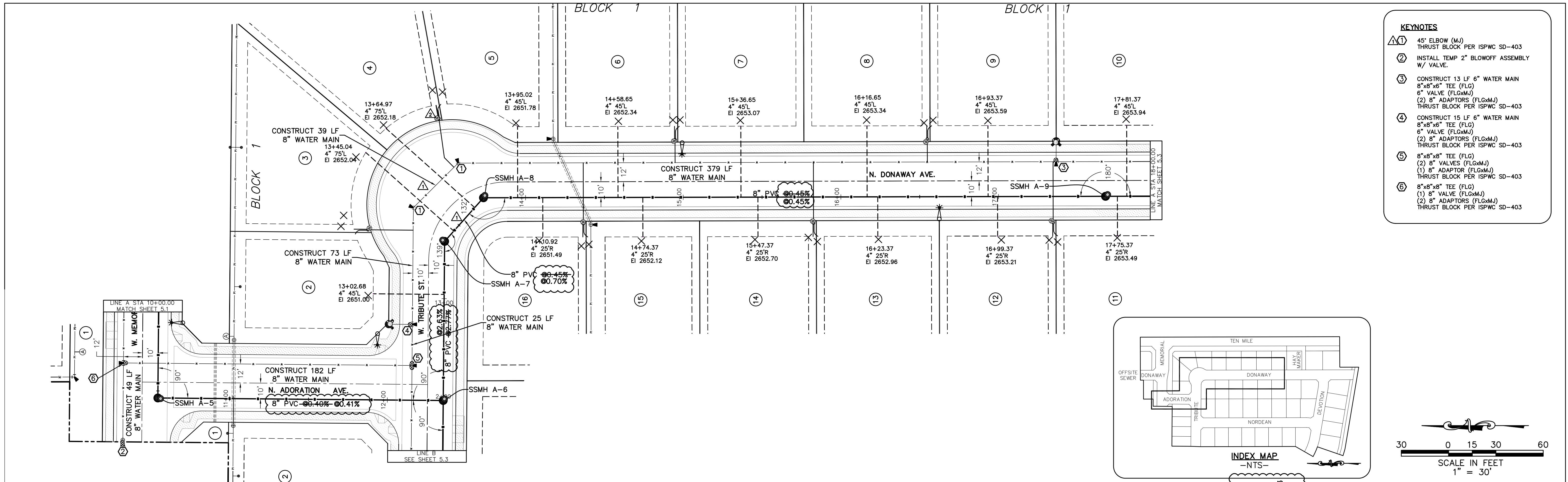
RECORD DRAWING
05-22-2017

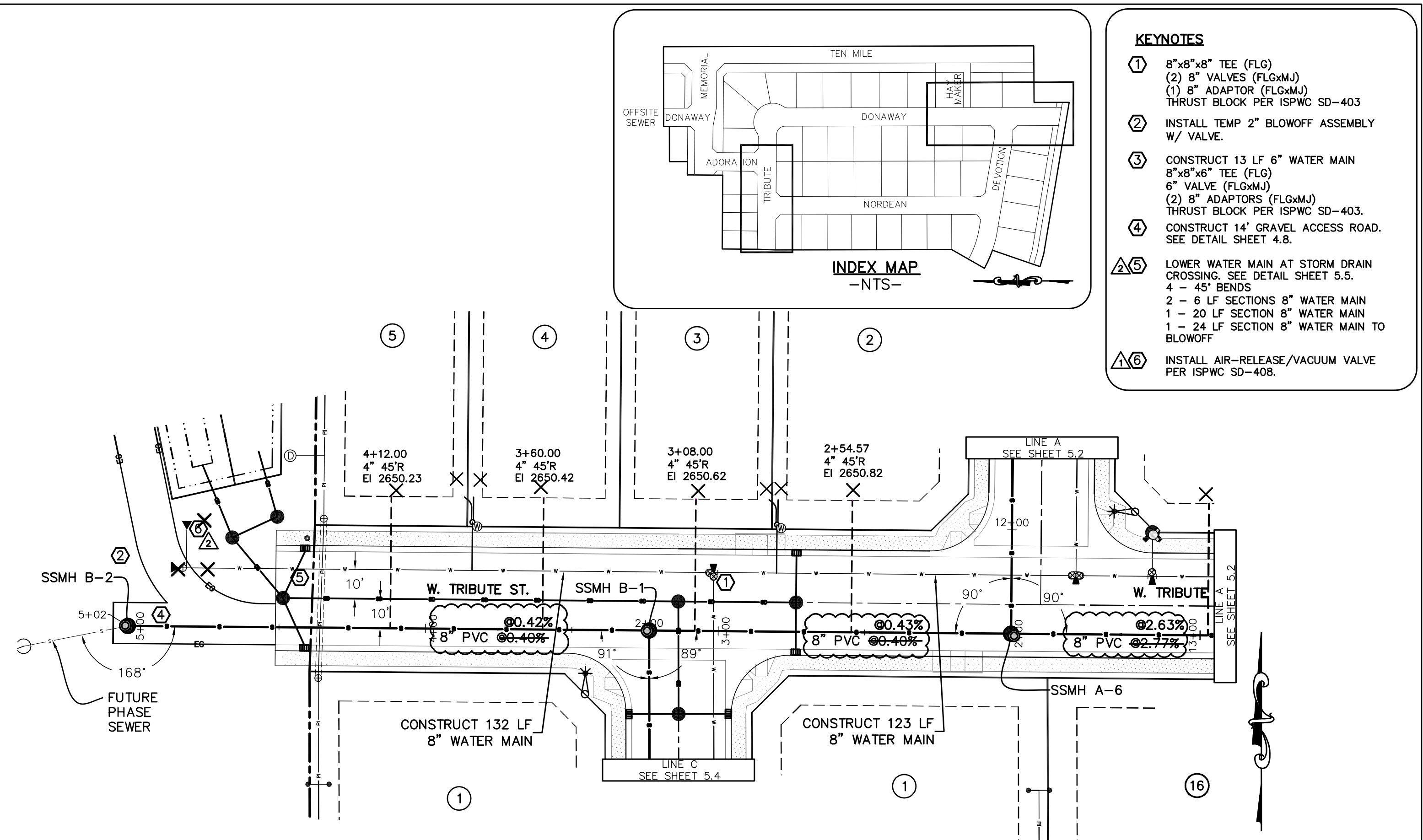
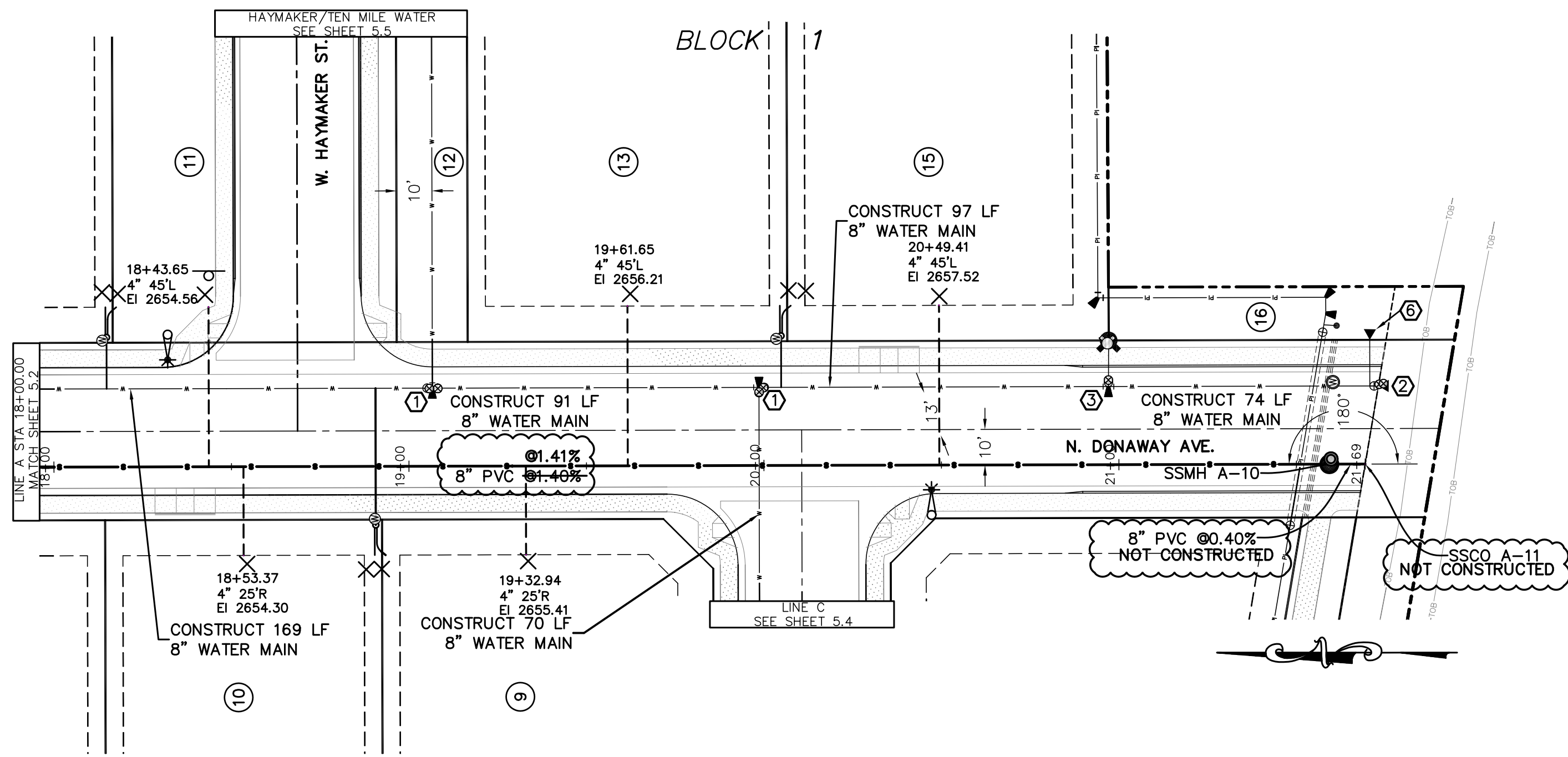
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NO.	DATE	DESCRIPTION
03-02-2016	CITY OF KUNA & ACHD	
04-22-2016	CITY OF KUNA & ACHD	
4242 N. BROOKSIDE LANE, BOISE, ID 83714 (208) 938-0013		

Bailey Engineering, Inc.
CIVIL ENGINEERING | PLANNING | CADD

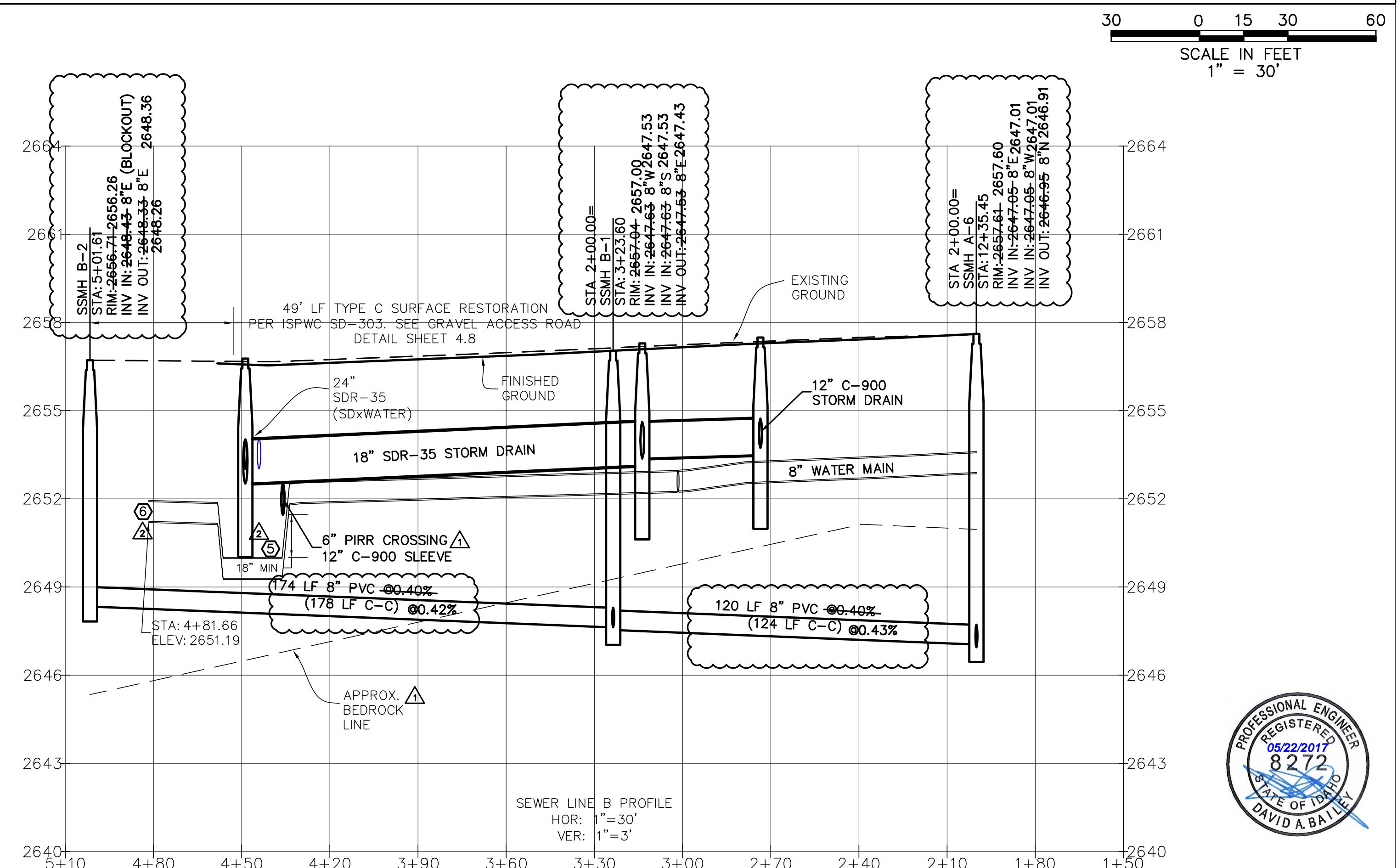
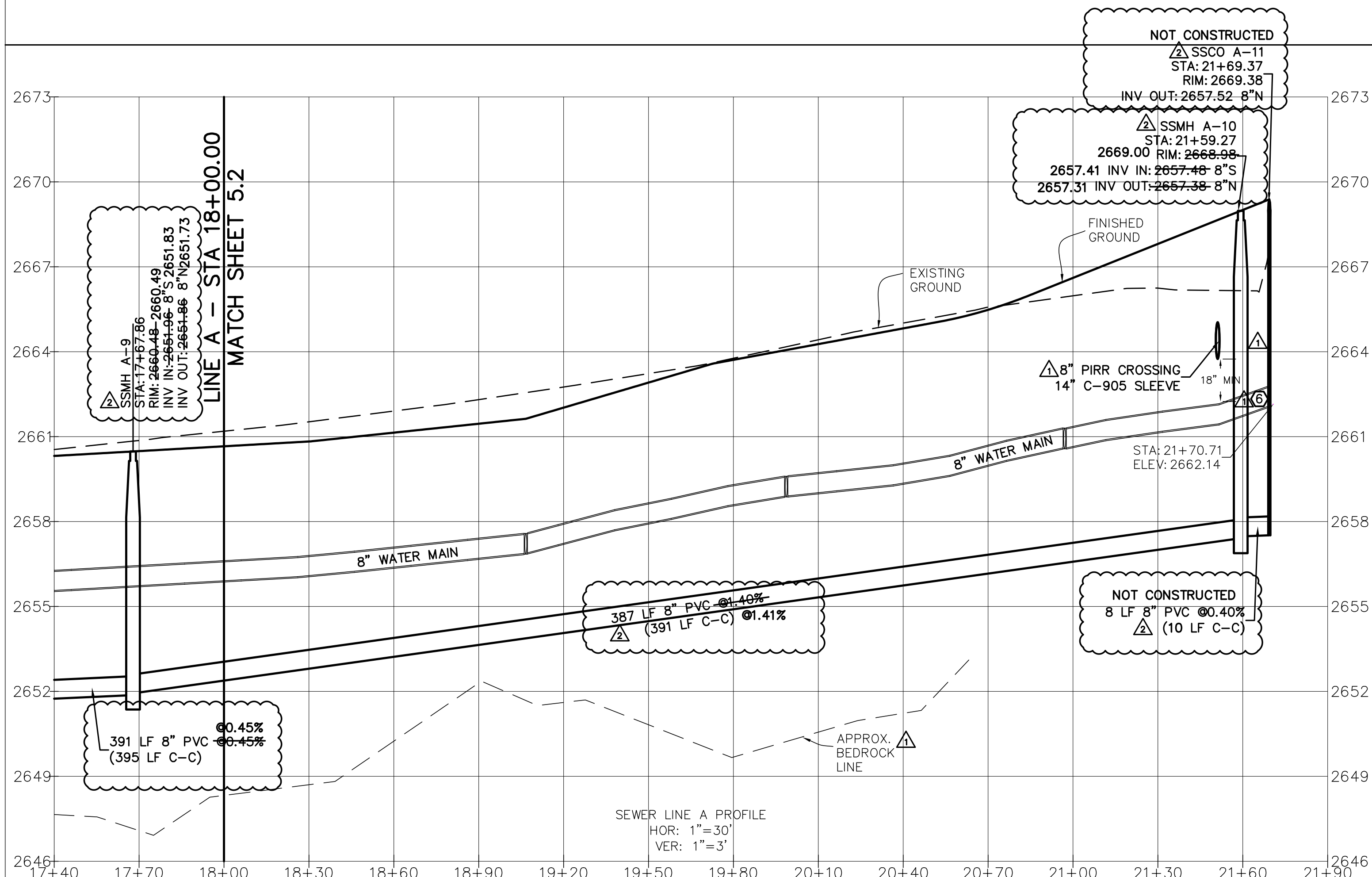
DRAWN BY: KSC	CHECKED BY: DAVID A. BAILEY P.E.	PROJECT NO. C2014-025	DATE: 1-22-2016
SEWER PLAN AND PROFILE			
MEMORY RANCH SUBDIVISION NO. 1			
TRILOGY DEVELOPMENT, INC			
SHEET			5.1







- KEYNOTES**
- ① 8"x8"x8" TEE (FLG)
 - (2) 8" VALVES (FLGMJ)
 - (1) 8" ADAPTOR (FLGMJ)
 - ② INSTALL TEMP 2" BLOWOFF ASSEMBLY W/ VALVE.
 - ③ CONSTRUCT 13 LF 6" WATER MAIN 8"x8"x6" TEE (FLG)
 - (2) 8" VALVES (FLGMJ)
 - ④ CONSTRUCT 14' GRAVEL ACCESS ROAD. SEE DETAIL SHEET 4.8.
 - ⑤ LOWER WATER MAIN AT STORM DRAIN CROSSING. SEE DETAIL SHEET 5.5.
 - ⑥ 4 - 45' BENDS
 - ⑦ 2 - 6 LF SECTIONS 8" WATER MAIN
 - ⑧ 1 - 20 LF SECTION 8" WATER MAIN
 - ⑨ 1 - 24 LF SECTION 8" WATER MAIN TO BLOWOFF
 - ⑩ INSTALL AIR-RELEASE/VACUUM VALVE PER ISPPC SD-408.



NOTE:
-THE SLOPE AND LENGTH OF PIPE IS CALCULATED FROM INSIDE FACE OF MANHOLE TO INSIDE FACE OF MANHOLE.

RECORD DRAWING
05-22-2017

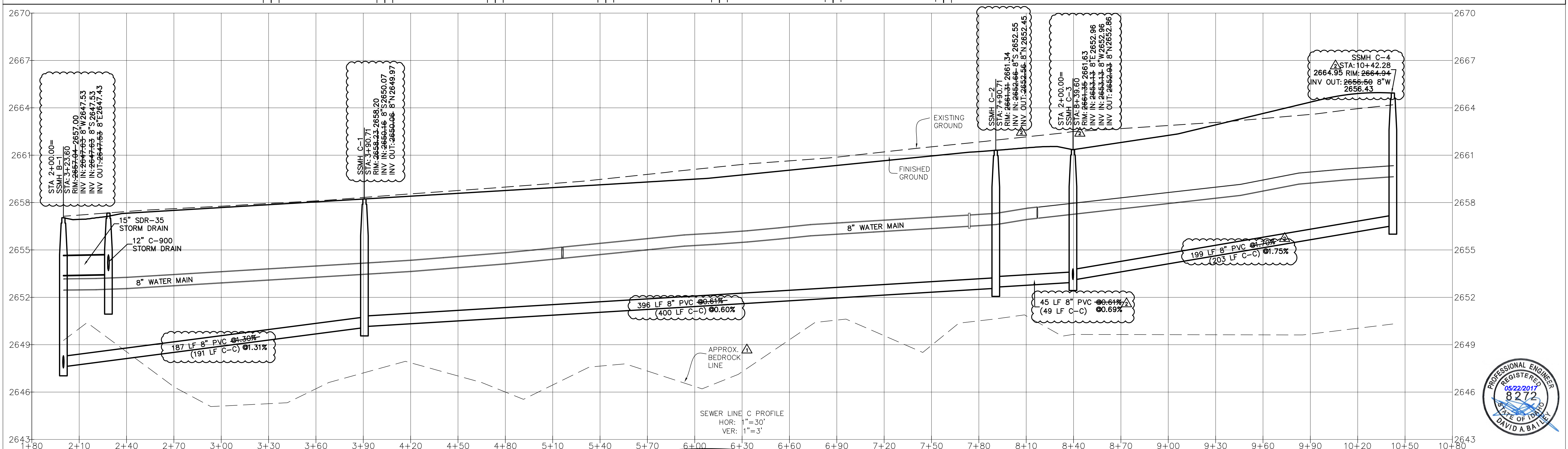
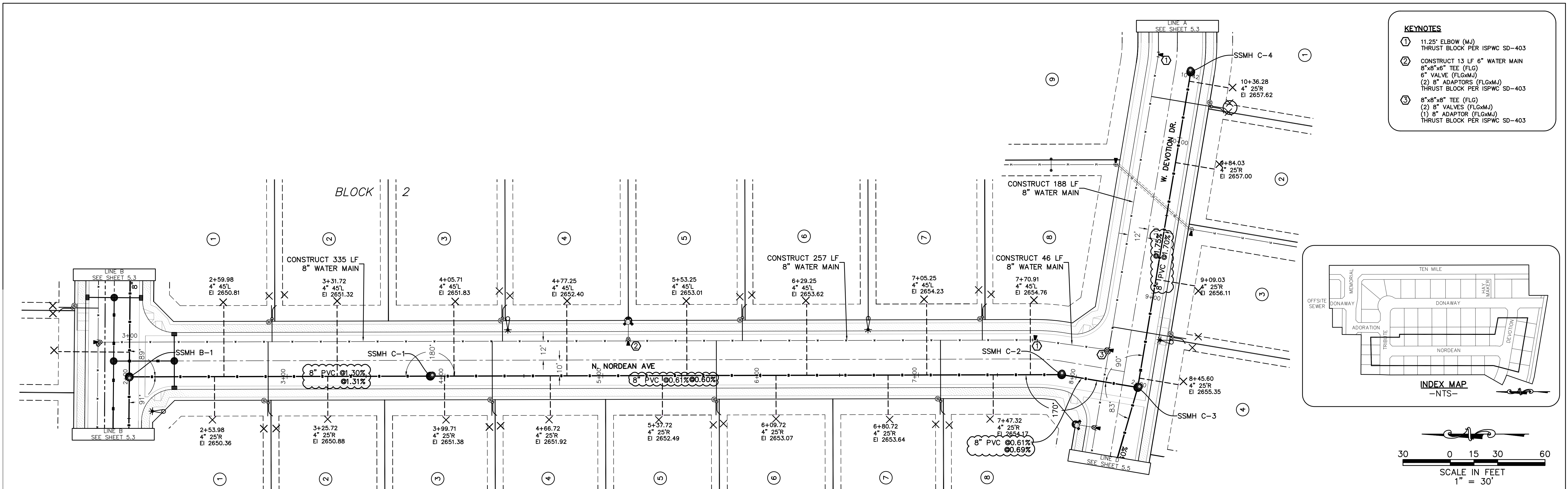
NO.	DATE	DESCRIPTION
03-02-2016	CITY OF KUNA & ACHD	
04-22-2016	CITY OF KUNA & ACHD	
4242 N. BROOKSIDE LANE, BOISE, ID 83714 (208) 938-0013		

Bailey Engineering, Inc.
CIVIL ENGINEERING | PLANNING | CADD

SEWER PLAN AND PROFILE
DRAWN BY: KSC CHECKED BY: DAVID A. BAILEY P.E. PROJECT NO. C2014-025 DATE: 1-22-2016
MEMORY RANCH SUBDIVISION NO. 1 TRILOGY DEVELOPMENT, INC



SHEET 5.3



- KEYNOTES**
- 11.25" ELBOW (MJ)
THRUST BLOCK PER ISWPC SD-403
 - CONSTRUCT 13 LF 6" WATER MAIN
8"x8"x6" TEE (FLG)
8" VALVE (FLGxMJ)
(2) 8" ADAPTORS (FLGxMJ)
THRUST BLOCK PER ISWPC SD-403
 - 8"x8"x8" TEE (FLG)
(2) 8" VALVES (FLGxMJ)
(1) 8" ADAPTOR (FLGxMJ)
THRUST BLOCK PER ISWPC SD-403

NOTE:
- THE SLOPE AND LENGTH OF PIPE IS
CALCULATED FROM INSIDE FACE OF
MANHOLE TO INSIDE FACE OF
MANHOLE.

RECORD DRAWING
05-22-2017

REVISED		
NO.	DATE	DESCRIPTION
03-02-2016	CITY OF KUNA & ACHD	
04-22-2016	CITY OF KUNA & ACHD	
4242 N. BROOKSIDE LANE, BOISE, ID 83714 (208) 938-0013		

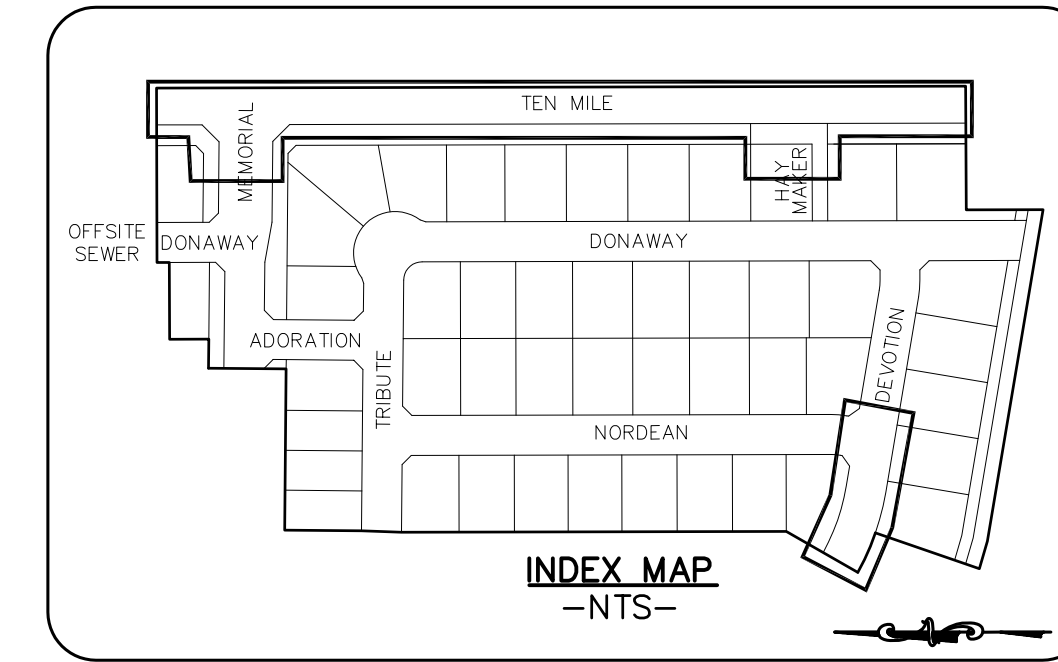
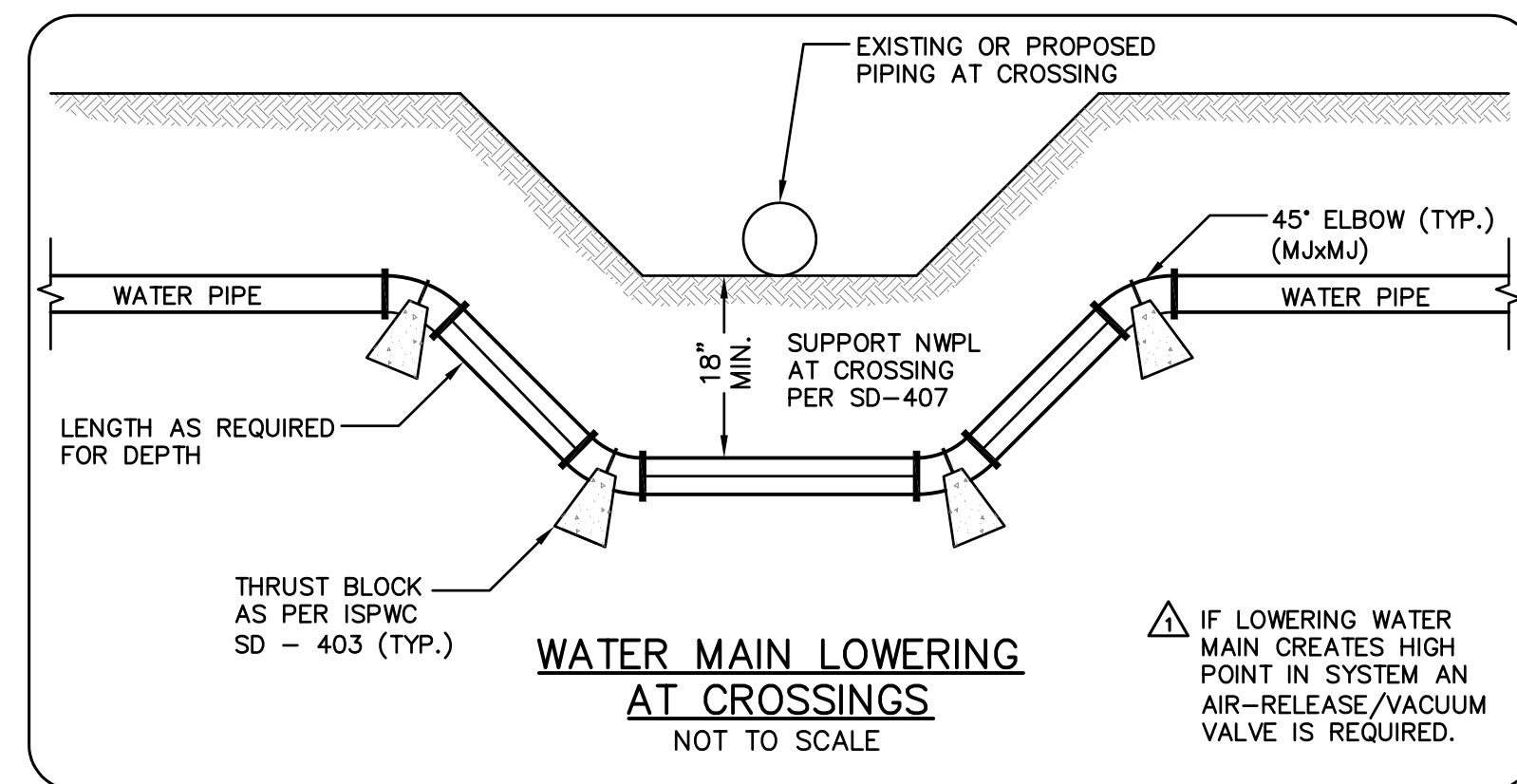
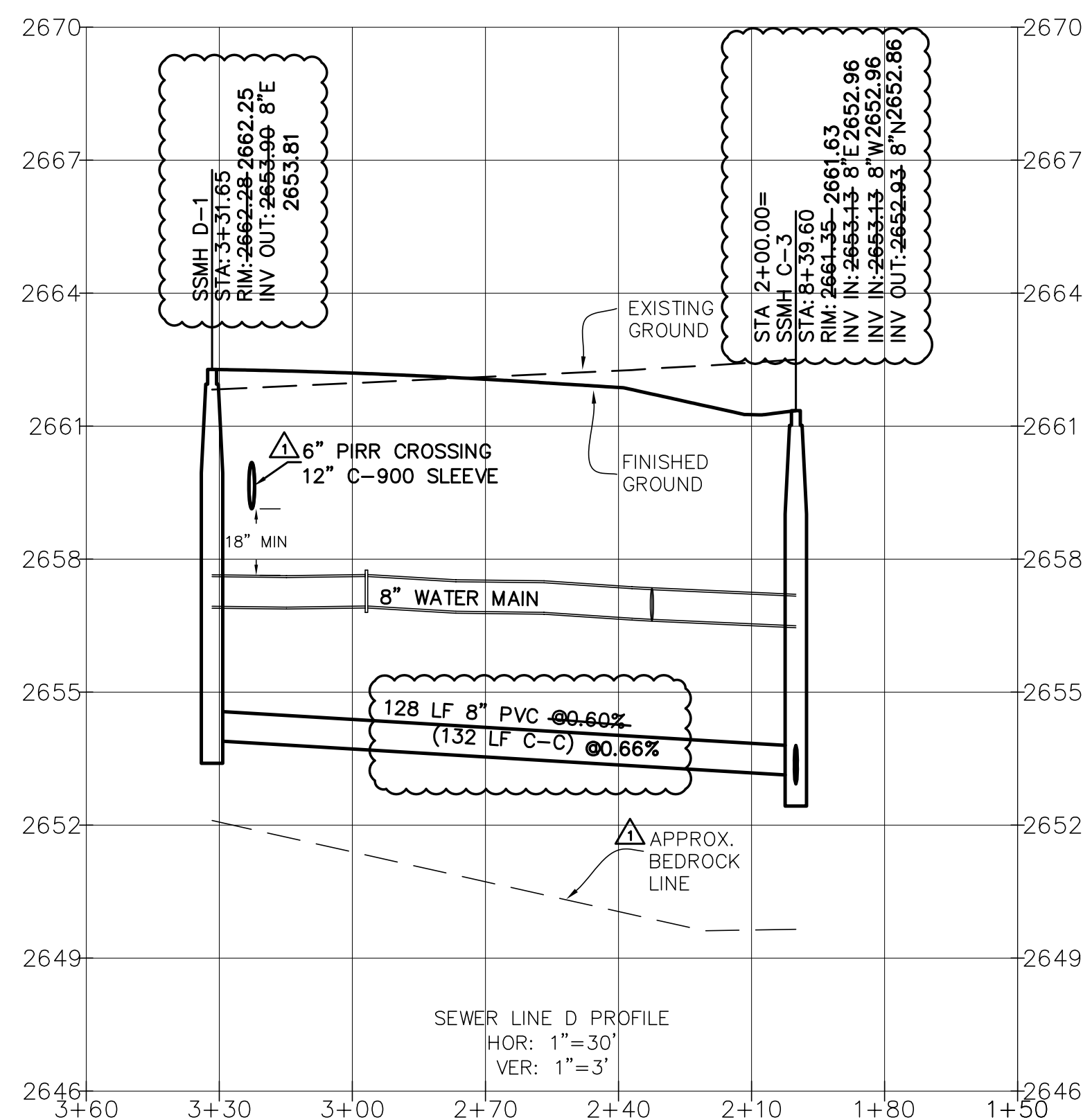
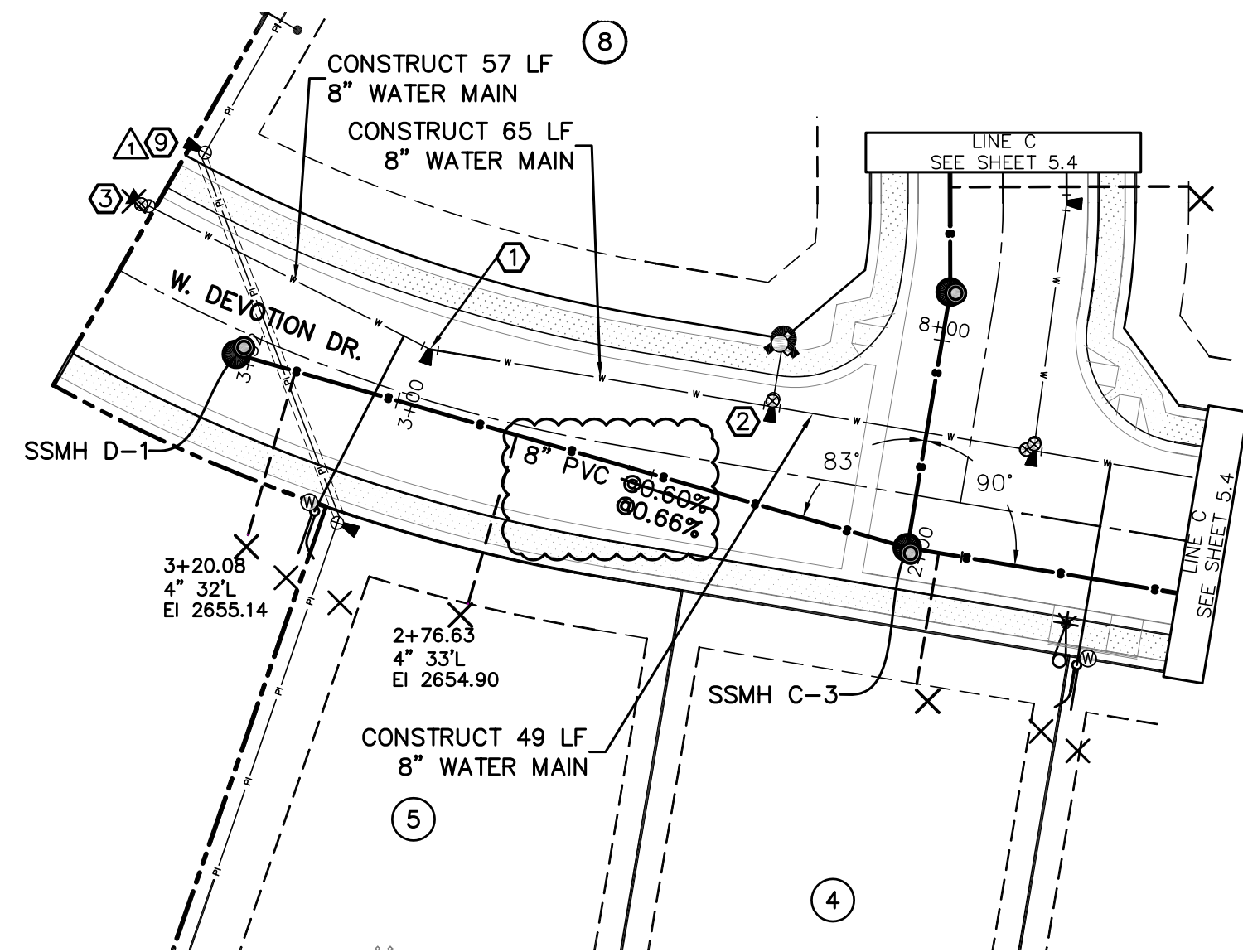
Bailey Engineering, Inc.
CIVIL ENGINEERING | PLANNING | CADD

SEWER PLAN AND PROFILE
MEMORY RANCH SUBDIVISION NO. 1
TRILOGY DEVELOPMENT, INC

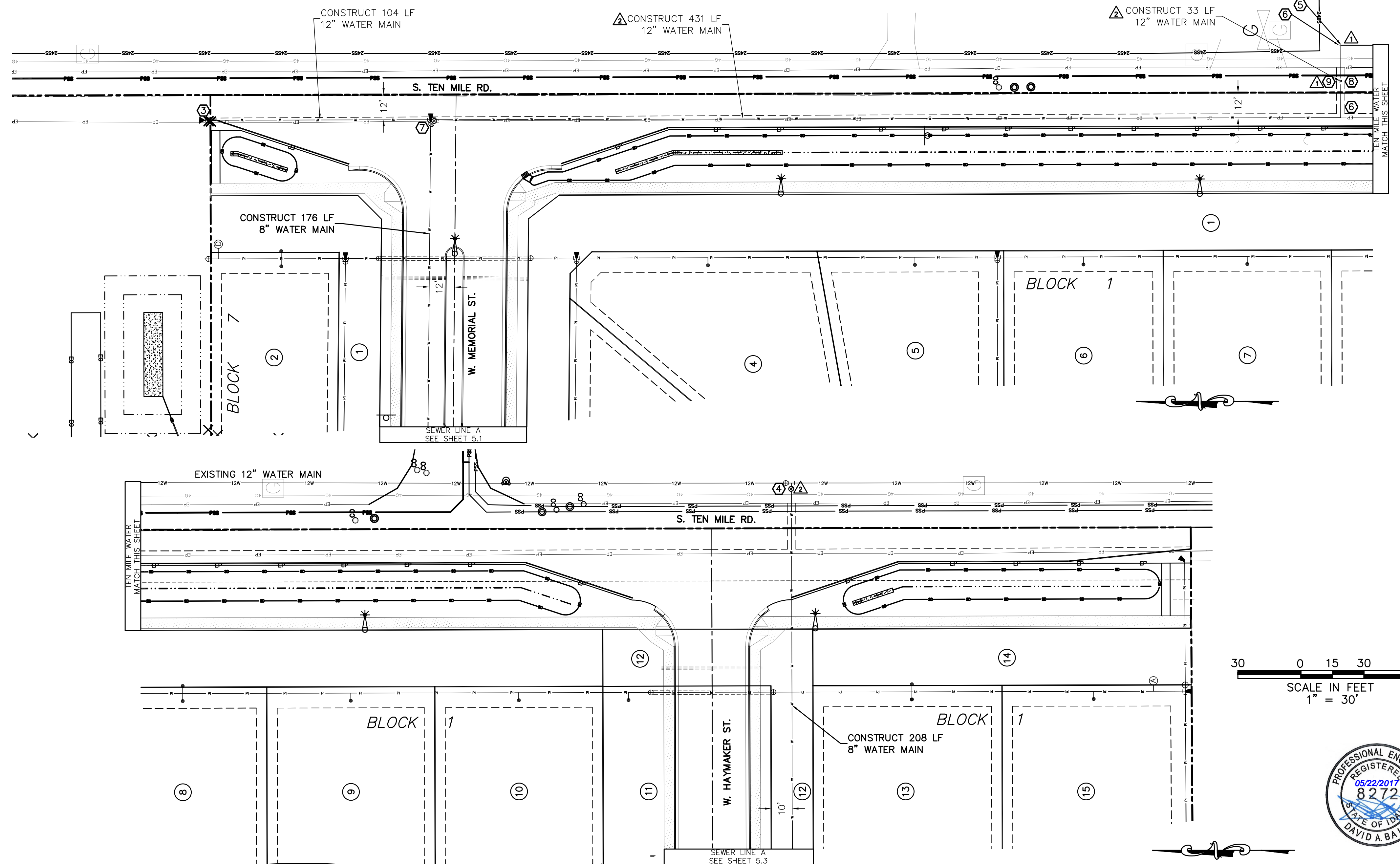
DRAWN BY: KSC
CHECKED BY: DAVID A. BAILEY P.E.
PROJECT NO. C2014-025
DATE: 1-22-2016

PROFESSIONAL ENGINEER
05/22/2017
8272
STATE OF IDAHO
DAVID A. BAILEY

SHEET
5.4



- KEYNOTES**
- ① 22.5' ELBOW (MJ)
THRUST BLOCK PER ISPCW SD-403
 - ② CONSTRUCT 13 LF 6" WATER MAIN
8"x8"x8" TEE (FLG)
8" VALVE (FLG&MJ)
(2) 8" ADAPTORS (FLG&MJ)
THRUST BLOCK PER ISPCW SD-403.
 - ③ INSTALL TEMP 2" BLOWOFF ASSEMBLY
W/ VALVE.
 - ④ CUT 12"x12"x8" TEE INTO EX 12" MAIN.
(1) 8" VALVE
COORDINATE W/ CITY OF KUNA
 - ⑤ REMOVE BLOWOFF ASSEMBLY AND
CONNECT TO EXISTING 12" WATER
VALVE - CONTRACTOR TO FIELD
VERIFY LOCATION AND ELEVATION.
(APPROX LOCATION OF EXISTING
BLOWOFF SHOWN - EXACT LOCATION
HAS NOT BEEN DETERMINED.
 - ⑥ 90° ELBOW (MJ)
THRUST BLOCK PER ISPCW SD-403
 - ⑦ 12"x12"x8" TEE (FLG)
1- 8" VALVE (FLG&MJ)
1- 12" VALVE (FLG&MJ)
1- 12" ADAPTOR (FLG&MJ)
THRUST BLOCK PER ISPCW SD-403.
 - ⑧ CONSTRUCT WATER MAIN LOWERING AT
CROSSING - SEE DETAIL THIS SHEET.
 - ⑨ INSTALL AIR-RELEASE/VACUUM VALVE
PER ISPCW SD-408.



30 0 15 30 60
SCALE IN FEET
1" = 30'



NOTE:
-THE SLOPE AND LENGTH OF PIPE IS
CALCULATED FROM INSIDE FACE OF
MANHOLE TO INSIDE FACE OF
MANHOLE.

RECORD DRAWING
05-22-2017

NO.	DATE	DESCRIPTION
03-02-2016	CITY OF KUNA & ACHD	
04-22-2016	CITY OF KUNA & ACHD	
4242 N. BROOKSIDE LANE, BOISE, ID 83714 (208) 938-0013		

Bailey Engineering, Inc.
CIVIL ENGINEERING | PLANNING | CADD

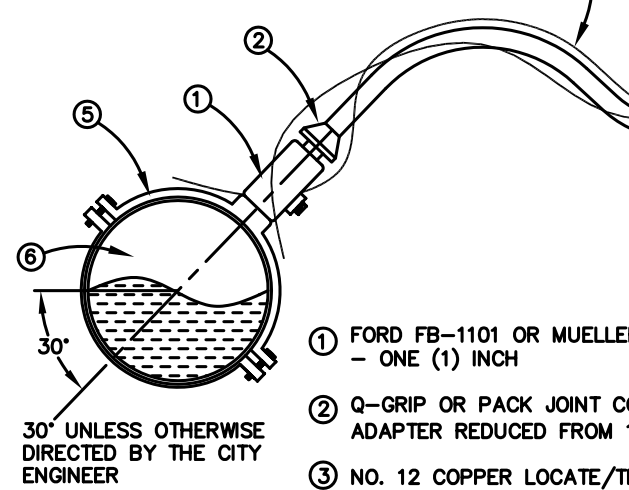
DRAWN BY: KSC CHECKED BY: DAVID A. BAILEY P.E. PROJECT NO. C2014-025 DATE: 1-22-2016
SEWER PLAN AND PROFILE
MEMORY RANCH SUBDIVISION NO. 1
TRILOGY DEVELOPMENT, INC

SHEET
5.5

NOTES:

- ① ALL PRODUCTS AS LISTED OR APPROVED SUBSTITUTIONS
② NO GALVANIZED PIPE OR YELLOW BRASS FITTINGS TO BE USED
③ SERVICE PIPE: 1" CLASS 200 POLYETHYLENE PIPE
④ SADDLE COUPLINGS USED FOR CONNECTION OF ALL SERVICE LINES TO PVC MAIN. SERVICE SADDLES: EPOXY COATED STEEL WITH STAINLESS STEEL BAND AND MUELLER THREADS (TYPE CC)
⑤ NO SERVICE CONNECTIONS WITHIN ONE (1) FOOT OF THE PIPE ENDS. STAGGER MULTIPLE CONNECTIONS MADE ON THE SAME JOINT OF PIPE ALONG THE CIRCUMFERENCE AND SEPARATED BY A MINIMUM OF 18 INCHES.
⑥ CENTER METER BOXES LOCATED IN CONCRETE DRIVEWAYS IN A 4' X 4' SQUARE OF CONCRETE, SEPARATED FROM THE REST OF THE DRIVEWAY CONCRETE BY EXPANSION JOINT MATERIAL. USE 30" TILE WITH CONCRETE GRADE RING, STANDARD
⑦ MANHOLE RING AND LID MARKED "WATER".
⑧ SET OF METER LID TWO (2) INCHES ABOVE FINISHED GRADE
⑨ COPPERSETTERS MUST BE 7" (SHORT LAY) METER SETS

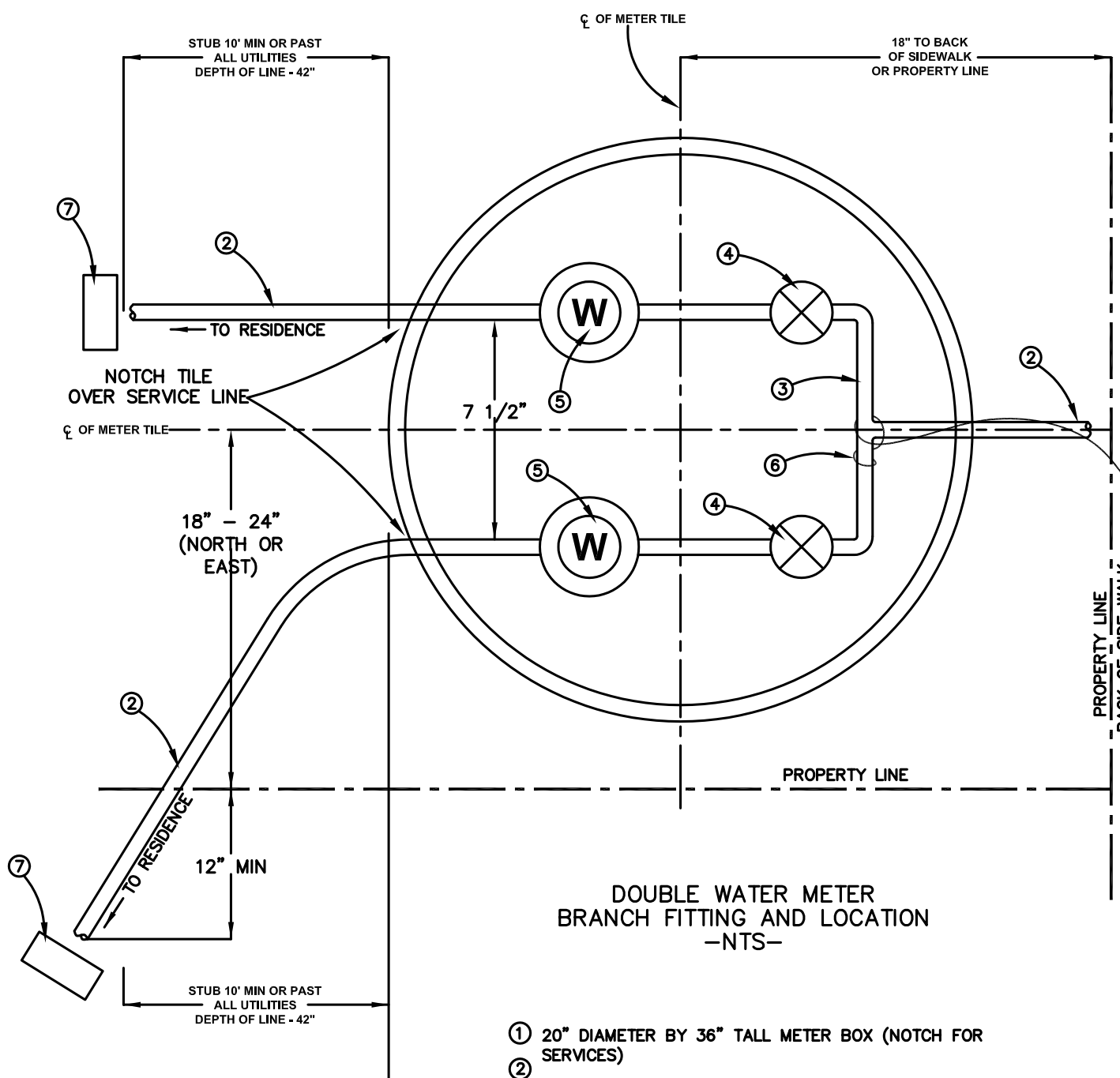
24" TO BACK OF SIDEWALK
18" MIN
21" MAX
42" MAX
18" MIN.
30" UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER



- ① FORD FB-1101 OR MUELLER BALL CORPORATION STOP - ONE (1) INCH
② Q-GRIP OR PACK JOINT COMPRESSION FITTING ADAPTER REDUCED FROM 1" TO 3/4"
③ NO. 12 COPPER LOCATE/TRACER WIRE LOOPED BACK TO WATERMAIN.
④ 20" DIA X 36" DEEP METER BOX (NOTCH FOR SERVICE LINES)
⑤ EPOXY COATED TAPPING SADDLE WITH STAINLESS STEEL BAND
⑥ WATERMAIN (SIZE VARIES - 8" TYP.)
⑦ 1" SERVICE LINE (TYP.) NO SPLICING IS ALLOWED
⑧ SWIVEL IRON PIPE THREAD CONNECTION
⑨ FULL OPENING 3/4" BALL VALVE
⑩ Q-GRIP OR PACK JOINT CURB STOP ADAPTER

- ⑪ FUTURE 7" METER INSTALLED BY THE CITY OF KUNA
⑫ FIRM UNDISTURBED EARTH. (SET TILE ON 2" X 22" DIAMETER PRECAST CONCRETE BLOCK IF OVER EXCAVATION OCCURS)
⑬ PROVIDE TEMPORARY PLUG (THREADED IN HIGH WATER AREAS)
⑭ DOUBLE PURPOSE COUPLING
⑮ FORD VBH92-18W-81-33-NL WITH MALE CONNECTION
⑯ FORD BALL VALVE 18" - 5/8" X 3/4" COPPERSETTER WITH PADLOCK WINGS AND EXTENDED END ON EACH
⑰ D&L L2242 CAST IRON LID WITH RECESSED HOLE: 13-1/2" OPENING - 1-1/32" PENTAGONAL NUT
⑱ CARTRIDGE CHECK VALVE FOR BACK-FLOW PREVENTION

WATER SERVICE CONNECTION
STANDARD 3/4" WATER SERVICE
STD DWG 401-1



- ① 20" DIAMETER BY 36" TALL METER BOX (NOTCH FOR SERVICES)
② 1" CLASS 200 POLYETHYLENE SERVICE PIPE
③ 1" BRANCH FITTING REDUCING TO 3/4" METER SETTER
④ 18" TALL 3/4" SHORT LAY (7 INCH) COPPER METER SETTER WITH LOCKABLE SHUT OFF VALVE AND SINGLE CHECK VALVE
⑤ WATER METER FURNISHED BY CITY OF KUNA
⑥ NO. 12 TRACER WIRE- LOOPED TO WATERMAIN
⑦ 2" X 4" MARKING POST PAINTED BLUE

WATER SERVICE CONNECTION
WATER METER & PIT LAYOUT
KUNA WATER DWG 402

RECORD DRAWING

05-22-2017



REVISED		
NO.	DATE	DESCRIPTION
4242 N. BROOKSIDE LANE, BOISE, ID 83714 (208) 938-0013		

Bailey Engineering, Inc.
CIVIL ENGINEERING | PLANNING | CADD

DRAWN BY: KSC	CHECKED BY: DAVID A. BAILEY P.E.	PROJECT NO. C2014-025	DATE: 1-22-2016
SEWER & WATER DETAILS			SHEET
MEMORY RANCH SUBDIVISION NO. 1			5.6
TRILOGY DEVELOPMENT, INC			

